

WEEKLY WEATHER AND CROP BULLETIN

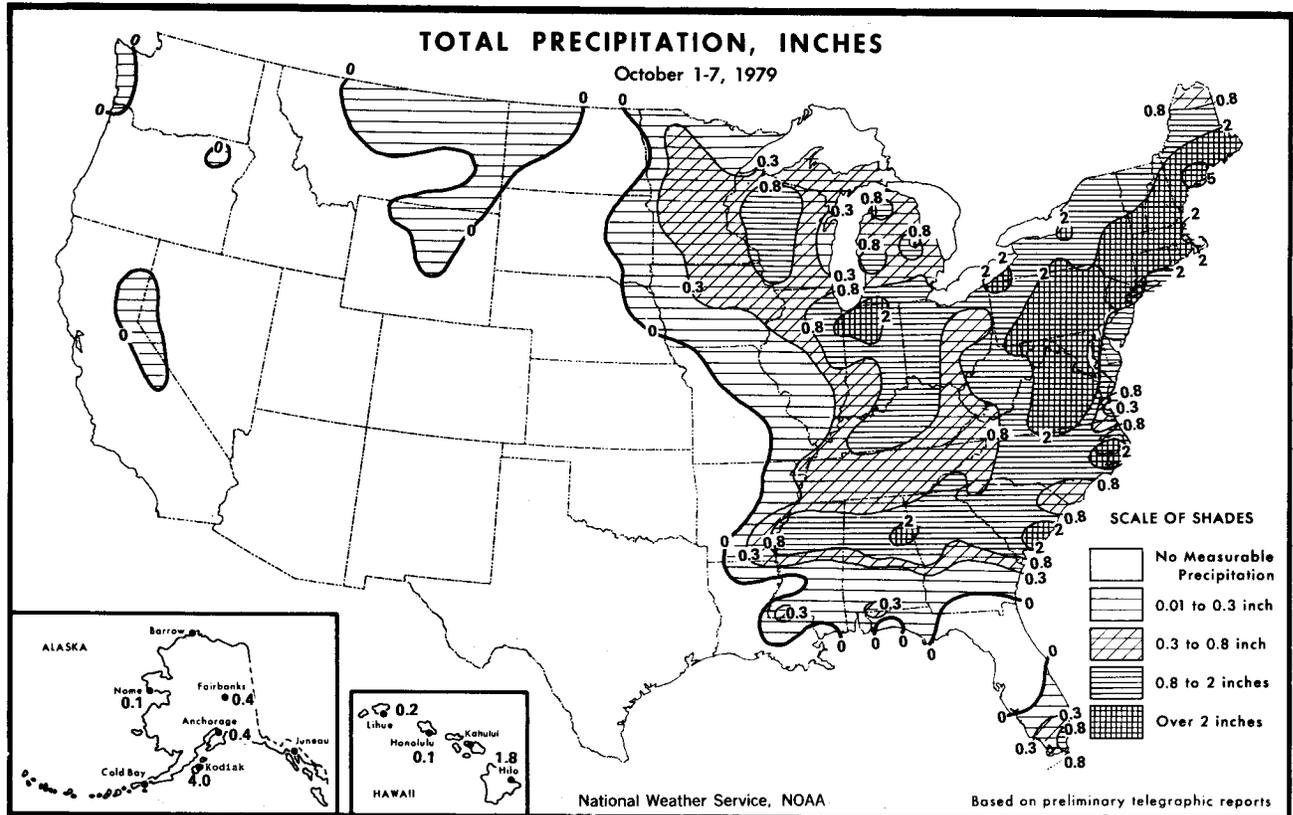
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National Weather Summary

October 1 - 7

HIGHLIGHTS: The heaviest rainfall area remained east of the Great Plains. A series of weather disturbances moved from the Great Lakes southeastward, bringing successively cooler air as well. More than 2 inches of rain covered a section from south central Virginia to New England. Lesser amounts extended through South Carolina and westward into Mississippi. Parts of the Midwest also noted moderate to heavy rainfall.

Temperatures ranged much cooler than normal in the East, and conversely, much warmer than the norm in the West. The upper Mississippi Valley averaged 7 to 9 degrees cooler than normal, while

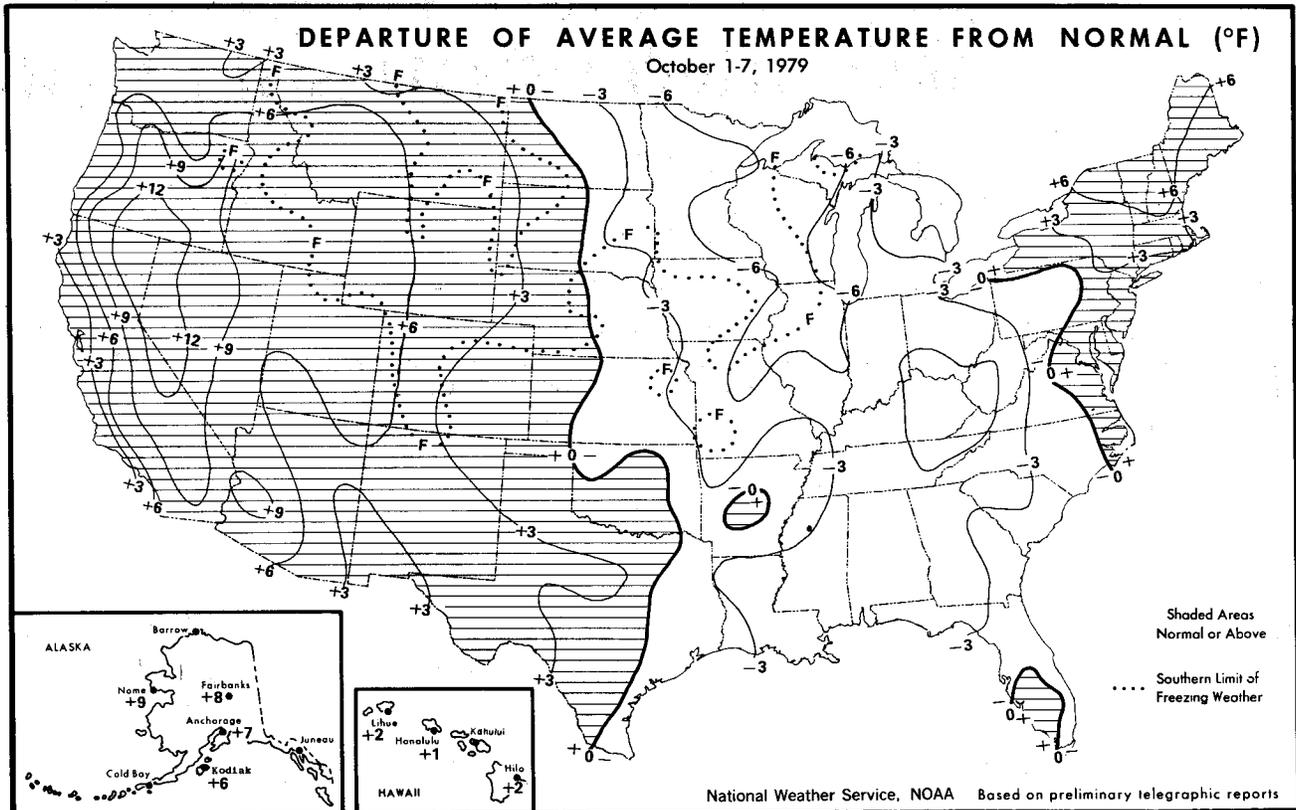
the eastern Ohio Valley showed 5 to 7 degrees below the norm. The West averaged as much as 12 degrees above normal.

On Monday, heavy rains fell over much of the East Coast. A sampling of rain totals showed 1.1 inches at Charleston, S.C.; about 2 inches at Washington, D.C.; 1.5 inches at Allentown, eastern Pennsylvania; and an inch and three-quarters at Augusta, Maine.

A cold front dropped through the upper half of the Mississippi Valley triggering showers, hail, and tornadoes. Nearly an inch of rain fell over La Crosse, western Wisconsin, while South Bend, northern Indiana, reported an inch and one-half. Five tornadoes touched down in Indiana.

In north central Texas, Abilene, at 103°, scored its hottest day of the year as well as its warmest October day ever. To the east, a record-breaking 102° warmed the Dallas/Fort Worth area.

The cold front brought rain to the upper Ohio Valley and the upper two-thirds of the Atlantic Coast States on Tuesday.



Nearly 3 inches doused Uniontown, western Pennsylvania; an inch dampened Richmond, Va.; and more than an inch fell over Eastport, eastern Maine.

Temperatures soared west of the Rockies. Record high readings showed 78° at Alamosa, south central Colorado, Albuquerque's 90°, 88° at Salt Lake City, and Phoenix's 104°.

Intense weather raced over the Northeast on Wednesday. More than 2 inches of rain and a tornado severely damaged Windsor Locks, north central Connecticut. Between an inch and one-half and two inches fell on Providence, R.I., Albany, N.Y., South Weymouth, eastern Massachusetts, and Portland, southern Maine.

Lighter amounts dotted the middle Atlantic States.

While readings dipped to the twenties and thirties in the northern sections of the Rockies and Plateau Region, temperatures continued at record-breaking levels in Texas and the Southwest. New marks again included Alamosa's 78°, Albuquerque's 88°, and Phoenix's 104°. Joining the list were Texas's Waco, 101°; Austin, 97°; and San Antonio, 98°.

A cold front stretched from Maine to the South triggering some heavy thunderstorms, especially in the South Atlantic States and Deep South on Thursday.

More than 2 inches of rain drenched Anniston, eastern Alabama, and Charleston, S.C. More than an inch fell over Greenwood, west central Mississippi, Augusta, eastern Georgia, and Charlotte, western North Carolina.

Record-tying temperatures in the eighties warmed the Nevada cities of Reno, Winnemucca, and Ely.

On Friday, the cold front carried moisture to the East with 1-to-2-inch rains falling from New England to the Carolinas.

Meantime, cold air pushed into the Nation's midlands and reached as far south as the Gulf of

Mexico. Records included 31° at Springfield, southern Missouri, and 32° at Fayetteville, northwestern Arkansas. Kansas City's 38° and New Orleans' 51° equaled records.

By contrast, the record heat lingered in West Texas and the Southwest. El Paso notched a record-tying 94°. New Nevada marks included 88° at Elko and 89° at Reno and Winnemucca. Albuquerque's 91° topped the 1956 record by 4 degrees.

Light showers dotted the Great Lakes Region and the northern Ohio Valley on Saturday. However, three tornadoes touched down in the same area.

Cold air coaxed the mercury to record levels in Florida. Records showed Tallahassee's 44°, Jacksonville's 49°, and 58° at Daytona Beach and Orlando.

Hot weather persisted from West Texas through Nevada. Again, new marks included 94° at El Paso, and in Nevada, Ely's 83°, Elko's 87°, and Winnemucca's 90°, which was the warmest reading there this late in the year.

On Sunday, heavy rains fell over northeastern Ohio and reached New England by nightfall. Flooding followed 2 inches of rain in Ohio's Lake Erie counties; nighttime storms dumped more than an inch of rain on Bridgeport, southwestern Connecticut. Very light snow swirled through parts of Pennsylvania and New York State.

The cold air over Florida settled in for more record low readings in the morning; Orlando, at 58°, set a new mark, and Daytona Beach's 57° tied the 1938 record.

Nearly 20 records were set from Idaho through the southern Plains when warm air spanned the region. A sampling included 88° at Pocatello, eastern Idaho, Albuquerque's 90°, El Paso's 96°, and record-equaling marks of 94° at Oklahoma City, 98° at Tulsa, and 91° at Dodge City, western Kansas.



National Agricultural Summary

October 1 - 7

HIGHLIGHTS: Subnormal temperatures plunged through the central States bringing frost into the Corn Belt. Most crops were mature resulting in very little damage. In some areas, the frost was beneficial in helping crops to dry. Only the eastern third of the Nation received significant precipitation. The rains along the Atlantic Coast States held the days available for fieldwork to only 2 to 4; elsewhere, farmers had almost a full week suitable for fieldwork. Winter wheat seeding advanced to 64%, lagging last year's 69% and the 70% average. Corn harvest advanced to 13%, short of 1978's 21% and the 20% average. Soybean harvest reached 28%, surpassing last year's 27% and equal to the average. Cotton picking stood at 11%, falling short of 1978's 23% and the 19% average. Rice harvest advanced to 63%, lagging last year because of the late harvest in the Delta. Grain sorghum harvest stood at 40%, slightly behind last year's 41% and the 42% average. Farmers continued to move cattle from summer ranges. Fuel supplies tightened slightly as harvest activities gained momentum. LP gas rated 5% tight and 92% adequate. Diesel fuel scored 19% tight and 80% adequate. Gasoline stood at 15% tight and 84% adequate.

SMALL GRAINS: Spring grain harvests were virtually complete; minor acreages remained along the Canadian border and at high elevations.

Winter wheat seeding advanced to 64%, five points less than last year and six points below the average. Wet soils and the late row crop harvest delayed planting in the Corn Belt. Dry soils slowed seeding from the central Plains southward and in the Pacific Northwest. Seeding on the northern Plains wound down, but the new seedings needed moisture.

CORN: Frost finally reached into the Corn Belt, but the crop was safe from any damage. Wet fields slowed harvest in the eastern Corn Belt where progress stood at 9%, lagging behind last year's 16% and the 13% average.

In the western Corn Belt, the late-maturing crop held harvest progress to only 10%, about half of last year's 19% and the 20% average.

Rains slowed harvest in the Southeast where progress advanced to 70%, falling below 1978's 76%, but ahead of the 64% average.

SOYBEANS: Most soybeans were mature and safe from the killing frost which hit the north central States. The frost should help dry the crop in preparation for harvest.

In the eastern north central States, wet soils slowed harvest operations particularly in Ohio. Harvest in the region reached 40%, equaling last year and 2 points ahead of average.

In the western north central States, harvest stood at 39%, surpassing last year's 33% and the 37% average.

Late beans needed rain and many fields were green in the south central States. Only 11 to 33% of the crop was mature, well behind recent years. Harvest progress reached 7%, five points below last year and the average.

Very few beans were harvested in the Southeast with 3% harvested in Georgia and none reported harvested in the Carolinas.

COTTON: Cotton acreage with open bolls ranged from 48% in Texas to 92% in Mississippi. Many States hovered around the halfway mark. Picking activity gradually increased; growers were busy defoliating stands. Harvest in the 14 major producing States stood at 11%, less than half the progress of last year's 23% and well behind the 19% average. Warmer weather speeded the Texas harvest. New Mexico growers began picking, but the late-maturing crop should hold harvesting activity to a minimum.

OTHER CROPS: Grain sorghum harvest reached 40%, closely following last year's 41% and the 42% average. Harvest ranged from 71% in Texas to 13 to 15% on the northern Plains and just started in Colorado.

Rice harvest advanced to 63%. Harvest along the Gulf Coast was about finished. Combining in the Delta ranged from 54% in Arkansas to 63% in Mississippi, lagging last year by 20 to 30 points. The California harvest reached 22%.

FRUITS & NUTS: Apple picking was almost complete in the southern States; northern growers continued picking the major fall varieties. Apples were slow to color in the Pacific Northwest.

Pecans rated mostly fair to good, except the Mississippi crop, which rated poor. Western growers harvested almonds, walnuts, pistachios, and filberts.

Florida citrus tree conditions improved after a period of very little rain. Groves on high sand-hill soils rated good, but groves on low, wet soils still had drainage problems. Harvest began slowly because of lagging maturity. Texas citrus sized well; growers applied insect controls. The Arizona lemon harvest gained momentum; the grapefruit harvest was limited.

VEGETABLES: Northern vegetable harvests wound down rapidly; most activity centered around cabbage, celery, and onions. Weather conditions in Florida vegetable areas improved greatly; harvests increased for sweet corn, cucumbers, eggplant, and squash. Texas growers planted a wide variety of vegetables in southern areas; harvests continued in northern areas. California continued harvests of broccoli, cauliflower, celery, bell peppers, market tomatoes, lettuce, and melons. Tomato-processing plants began closing for the season.

PASTURES & LIVESTOCK: Southern livestock producers planted crops for winter grazing. Texas grasslands continued to deteriorate from hot, dry weather; producers culled herds closely. California ranges were dry and needed rain for new growth. Western ranchers continued to move herds from summer pastures.

Weather Data for the Week Ending Oct. 7, 1979

States and Stations	Temperature °F						Precipitation						Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
ALA. Birmingham. . .	75	52	82	47	63	- 5	1.5	.9	1.5	10.6	272	90	47	0	0	1	1	
Mobile.	84	55	89	48	70	- 3	.2	.7	.1	10.5	148	88	36	0	0	1	0	
Montgomery. . . .	79	52	84	44	66	- 5	.2	.5	.2	5.0	102	87	36	0	0	1	0	
ALASKA. Anchorage. .	54	43	57	37	48	8	.4	0	.2	2.7	100	77	62	0	0	4	0	
Barrow.	32	30	34	27	31	10	.1	.3	.1	.3	60	73	73	0	5	1	0	
Fairbanks.	53	31	64	28	42	8	.4	.2	.3	.5	45	67	50	0	6	1	0	
Kodiak.	56	45	60	39	50	6	4.0	2.5	1.4	7.8	108	87	70	0	0	5	3	
Nome.	49	38	54	31	43	9	.1	.3	T	3.6	138	78	66	0	1	3	0	
ARIZ. Flagstaff. . .	78	38	78	38	58	6	0	.4	0	.1	5	56	15	0	0	0	0	
Phoenix.	101	70	104	68	86	8	0	.1	0	.1	17	40	12	7	0	0	0	
Tucson.	96	66	99	64	81	6	0	.2	0	0	0	34	14	7	0	0	0	
Winslow.	86	46	88	39	66	3	0	.2	0	.1	11	--	--	0	0	0	0	
Yuma.	103	70	104	67	87	6	0	0	0	0	0	45	12	7	0	0	0	
ARK. Fort Smith. . .	84	46	94	34	65	- 3	0	.8	0	.8	20	91	22	2	0	0	0	
Little Rock. . . .	81	55	92	46	68	1	T	.7	0	3.6	90	68	38	1	0	0	0	
CALIF. Bakersfield. .	89	68	93	67	78	7	0	0	0	.4	400	65	33	4	0	0	0	
Eureka.	62	54	67	51	58	3	T	.4	T	.2	18	95	75	0	0	0	0	
Fresno.	91	63	95	60	77	8	0	.1	0	0	0	72	32	5	0	0	0	
Los Angeles. . . .	76	62	79	60	69	2	0	0	0	0	0	86	59	0	0	0	0	
Red Bluff.	91	62	102	59	76	6	0	.1	0	.3	60	71	28	1	0	0	0	
San Diego.	80	68	81	64	74	6	0	0	0	0	0	84	62	0	0	0	0	
San Francisco. . . .	71	57	79	55	64	1	T	.1	T	0	0	87	55	0	0	0	0	
Stockton.	87	60	95	57	73	5	0	.1	0	0	0	73	32	1	0	0	0	
COLO. Denver. . . .	77	44	86	39	61	4	T	.3	T	.3	21	56	17	0	0	0	0	
Grand Junction. . .	84	53	85	52	67	7	0	.2	0	0	0	31	14	0	0	0	0	
Pueblo.	71	51	74	--	60	0	0	.2	0	.6	67	66	17	0	0	0	0	
CONN. Bridgeport. . .	68	57	71	49	63	2	1.5	.9	--	6.0	188	69	62	0	0	1	0	
Hartford.	69	53	74	44	61	4	3.3	2.6	2.1	6.3	162	88	54	0	0	3	2	
D.C. Washington. . .	72	57	77	47	65	1	2.6	2.0	1.5	9.2	271	89	63	0	0	4	3	
FLA. Apalachicola. .	81	62	86	63	71	- 3	0	- 1.2	0	16.7	174	80	43	0	0	0	0	
Daytona Beach. . . .	85	70	88	70	75	- 1	0	- 1.5	0	13.9	170	94	52	0	0	0	0	
Ft. Myers.	88	73	90	67	80	1	.2	- 1.3	.1	14.7	152	87	56	2	0	2	0	
Jacksonville. . . .	84	60	87	56	72	- 2	0	- 1.4	0	17.6	202	90	50	0	0	0	0	
Key West.	85	78	86	77	82	0	.5	- 1.1	.2	3.0	35	88	64	0	0	3	0	
Miami.	85	72	86	70	78	- 1	1.1	- 1.1	1.0	13.6	131	94	62	0	0	3	1	
Orlando.	86	65	90	58	76	- 1	0	- 1.3	0	9.2	114	92	46	1	0	0	0	
Tallahassee.	84	52	89	44	68	- 5	T	- 1.0	T	10.1	140	96	46	0	0	0	0	
Tampa.	84	68	86	58	76	- 2	T	- .9	T	14.0	206	86	55	0	0	0	0	
W. Palm Beach. . . .	88	71	89	68	79	0	.2	- 2.2	.2	19.4	167	89	53	0	0	2	0	
GA. Atlanta.	74	51	81	44	63	- 4	1.2	.6	1.2	7.2	200	95	47	0	0	1	1	
Augusta.	79	51	87	43	65	- 3	1.3	.7	1.3	5.5	153	94	44	0	0	2	1	
Macon.	82	54	87	46	68	- 2	.3	-.3	.3	6.0	167	93	41	0	0	1	0	
Savannah.	81	60	87	51	70	- 1	.6	-.3	.4	12.9	211	87	43	0	0	2	0	
HAWAII. Hilo.	77	70	77	70	77	2	1.8	-.3	--	5.3	60	88	89	0	0	--	--	
Honolulu.	86	75	90	73	81	1	.1	-.1	0	.5	71	70	57	0	0	0	0	
Kahului.	90	74	90	--	82	4	.2	.1	--	0	0	--	56	0	0	--	--	
Lihue.	86	75	86	79	80	2	.2	.5	--	1.0	42	79	66	0	0	--	--	
IDAHO. Boise.	80	45	83	34	62	6	0	-.1	0	0	0	48	19	0	0	0	0	
Lewiston.	76	51	76	51	64	7	0	-.2	0	.2	20	51	21	0	0	0	0	
Pocatello.	80	40	88	31	60	7	0	-.1	0	.2	40	52	15	0	1	0	0	
ILL. Cairo.	75	53	85	47	64	- 2	.1	-.5	.1	3.0	79	--	--	0	0	1	0	
Chicago.	61	46	76	39	53	- 7	1.1	.5	.7	1.1	32	87	56	0	0	5	1	
Moline.	64	39	72	31	51	- 8	.5	-.3	.3	.5	11	86	49	0	2	3	0	
Peoria.	63	39	78	31	51	- 9	.5	-.2	.3	.5	13	88	50	0	1	3	0	
Rockford.	61	40	75	33	50	- 8	.5	-.3	.4	.5	11	94	55	0	0	3	0	
Springfield.	68	47	86	34	58	- 4	.1	-.7	.1	.1	3	84	42	0	0	2	0	
IND. Evansville. . . .	70	48	84	39	59	- 4	.5	-.1	.3	3.1	97	73	44	0	0	4	0	
Ft. Wayne.	62	45	79	36	54	- 4	1.3	.7	1.0	1.7	57	92	54	0	0	4	1	
Indianapolis.	65	46	82	38	55	- 5	.8	.2	.6	1.2	36	93	51	0	0	3	1	
South Bend.	63	49	78	44	56	- 2	3.1	2.4	1.6	3.1	86	95	62	0	0	6	3	
IOWA. Burlington. . .	65	43	73	33	54	- 6	.2	-.6	.1	.2	5	--	--	0	0	4	0	
Des Moines.	66	41	76	35	54	- 5	.1	-.5	.1	.8	24	76	32	0	0	1	0	
Dubuque.	61	42	65	31	51	- 5	.6	-.2	--	.6	12	85	53	0	0	--	0	
Sioux City.	69	39	76	33	54	- 4	T	-.5	T	2.0	63	76	30	0	0	2	0	
KANS. Concordia. . . .	78	45	86	38	62	0	T	-.6	T	.8	22	55	20	0	0	0	0	
Dodge City.	80	48	91	37	64	1	0	-.4	0	.1	5	40	14	2	0	0	0	
Goodland.	78	42	89	32	60	2	0	-.3	0	.2	13	53	16	0	1	0	0	
Topeka.	75	42	80	32	59	- 4	T	-.7	T	.8	22	65	23	0	1	0	0	
Wichita.	80	47	92	42	63	- 1	0	-.7	0	1.6	39	43	15	1	0	0	0	
KY. Lexington.	65	46	77	38	55	- 8	1.0	.5	.5	10.7	369	91	50	0	0	3	1	
Louisville.	69	52	82	45	61	- 2	.9	.3	.4	11.4	345	89	48	0	0	3	0	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Oct. 7, 1979

States and Stations	Temperature °F						Precipitation						Relative Humidity, percent		Number of Days				
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation			
														90 and above	32 and below	.01 inch or more	.50 inch or more		
LA. Baton Rouge . . .	84	54	88	48	69	- 4	T	-.7	T	3.4	79	96	45	1	0	0	0		
Lake Charles . . .	84	60	89	49	72	- 2	T	-.8	T	12.6	268	96	55	0	0	0	0		
New Orleans . . .	82	56	89	51	69	- 5	T	-.7	T	3.0	51	88	44	0	0	0	0		
Shreveport . . .	85	53	92	42	69	- 3	T	-.7	T	3.6	103	81	37	2	0	0	0		
MAINE. Caribou . . .	62	46	62	--	54	6	T	-.1	T	5.4	135	90	64	0	0	6	0		
Portland . . .	64	50	70	42	57	4	T	4.0	3.3	1.7	7.3	203	--	0	0	4	3		
MD. Baltimore . . .	71	54	76	44	62	0	T	2.9	2.3	1.2	9.6	282	92	57	0	0	4	3	
MASS. Boston . . .	67	56	76	52	62	3	T	1.9	1.3	1.2	5.5	153	88	70	0	0	5	2	
Chatham . . .	65	56	69	53	61	--	T	1.0	--	.3	3.0	83	85	75	0	0	2	1	
MICH. Alpena . . .	59	41	64	37	49	- 2	T	.6	.1	.3	.9	25	--	0	0	3	0		
Detroit . . .	62	47	72	37	55	- 3	T	.6	.1	.4	1.5	60	88	61	0	0	3	0	
Flint . . .	60	46	73	35	53	- 2	T	.5	0	.3	.8	29	97	70	0	0	5	0	
Grand Rapids . . .	62	45	76	35	54	- 3	T	.4	--	.2	.3	.4	11	61	61	0	0	4	0
Houghton Lake . . .	61	40	71	35	50	- 2	T	.4	--	.3	.6	16	96	59	0	0	0	0	
Lansing . . .	61	45	78	40	53	- 3	T	.5	--	.1	.5	17	94	58	0	0	4	0	
Marquette . . .	50	34	55	28	42	- 7	T	.4	.3	.1	2.4	65	94	68	0	4	5	0	
Muskegon . . .	60	42	73	36	51	- 5	T	1.6	.9	.7	1.8	46	90	57	0	0	4	2	
S. Ste. Marie . . .	57	37	65	25	47	- 3	T	.4	--	.3	.4	2.0	47	91	58	0	1	2	0
MINN. Duluth . . .	55	36	63	28	45	- 4	T	.2	.4	.1	1.5	44	81	49	0	1	3	0	
Internatl. Falls . . .	51	31	59	25	41	- 7	T	.1	.4	.4	.8	22	88	54	0	6	4	0	
Minneapolis . . .	58	37	66	30	48	- 7	T	.6	.1	.4	2.6	87	85	45	0	1	3	0	
Rochester . . .	60	38	68	34	49	- 6	T	.7	.2	.7	1.3	38	80	48	0	0	3	1	
St. Cloud . . .	60	34	63	28	47	- 6	T	.6	.2	--	2.1	75	86	--	0	2	0	0	
MISS. Jackson . . .	81	47	89	39	64	- 6	T	--	.5	T	5.8	176	91	41	0	0	0	0	
Meridian . . .	82	49	88	42	65	- 4	T	--	.6	T	8.0	216	91	40	0	0	0	0	
MO. Columbia . . .	69	45	78	33	56	- 7	T	--	.9	T	0	0	70	36	0	0	1	0	
Kansas City . . .	72	45	80	38	59	- 3	T	--	.9	T	.4	3	59	22	0	0	0	0	
St. Louis . . .	75	53	87	41	60	- 4	T	.1	.5	.1	.1	3	78	34	0	0	1	0	
Springfield . . .	77	43	88	31	60	- 4	T	--	.9	T	.3	6	70	25	0	1	0	0	
MONT. Billings . . .	75	46	85	38	60	7	T	--	.3	T	.1	6	45	20	0	0	0	0	
Glasgow . . .	69	43	75	33	56	5	T	--	.1	T	.2	22	62	21	0	0	0	0	
Great Falls . . .	75	44	86	29	59	6	T	--	.2	T	.3	21	47	20	0	1	1	0	
Havre . . .	71	39	71	--	55	3	T	.1	.1	--	.8	62	55	18	0	0	0	0	
Helena . . .	74	39	81	28	57	6	T	0	.1	0	.1	10	52	20	0	2	0	0	
Kalispell . . .	74	30	82	24	52	5	T	--	.3	T	.4	29	90	25	0	5	0	0	
Miles City . . .	73	42	83	42	58	4	T	--	.2	T	0	0	56	22	0	0	0	0	
Missoula . . .	74	37	81	30	56	7	T	--	.2	0	0	0	61	22	0	1	0	0	
NEBR. Grand Island . . .	75	41	82	32	58	- 1	T	--	.4	T	2.0	74	61	23	0	1	0	0	
Lincoln . . .	66	60	82	60	58	- 2	T	--	.5	T	.4	12	68	24	0	0	0	0	
Norfolk . . .	71	39	81	33	55	- 2	T	--	.4	T	1.8	67	69	23	0	0	1	0	
N. Platte . . .	79	37	90	31	58	- 2	T	--	.3	T	.4	18	61	18	1	1	0	0	
Omaha . . .	69	46	77	38	57	- 2	T	--	.5	T	2.1	62	67	28	0	0	0	0	
Valentine . . .	67	43	75	28	55	0	T	--	.3	T	1.4	82	70	21	0	1	0	0	
NEV. Ely . . .	80	37	83	35	59	8	T	--	.1	T	.1	17	46	13	0	0	0	0	
Las Vegas . . .	97	65	98	62	81	8	T	0	0	0	0	0	29	12	7	0	0	0	
Reno . . .	86	44	89	42	65	10	T	.1	0	--	.1	25	72	18	0	0	0	0	
Winnemucca . . .	87	41	90	37	64	11	T	0	.1	0	0	0	55	13	1	0	0	0	
N.H. Concord . . .	68	52	76	45	60	6	T	2.2	1.6	1.3	5.4	154	87	58	0	0	3	2	
N.J. Atlantic City . . .	72	58	74	50	62	1	T	.4	.3	.2	3.7	109	90	53	0	0	4	0	
Trenton . . .	68	57	75	49	62	1	T	1.7	1.1	1.0	8.1	225	--	--	0	0	3	1	
N.MEX. Albuquerque . . .	88	50	91	46	69	5	T	0	.2	0	.4	44	42	11	3	0	0	0	
Roswell . . .	86	51	95	47	69	5	T	0	.4	0	.1	5	--	--	0	0	0	0	
N.Y. Albany . . .	68	52	74	46	60	4	T	2.9	2.3	1.5	6.9	197	84	59	0	0	3	3	
Binghamton . . .	61	51	68	39	56	1	T	1.3	.6	.7	5.5	157	86	64	0	0	4	1	
Buffalo . . .	62	52	75	39	57	1	T	1.3	.6	.5	6.7	176	91	69	0	0	5	1	
New York . . .	69	57	75	49	63	1	T	2.2	1.6	1.1	6.2	182	84	58	0	0	4	2	
Rochester . . .	65	52	73	40	58	1	T	1.2	.6	.8	6.0	214	92	70	0	0	4	1	
Syracuse . . .	66	53	71	43	59	3	T	1.4	.8	1.2	5.7	184	86	67	0	0	4	1	
N.C. Asheville . . .	68	45	73	35	56	- 5	T	.5	.3	.5	5.9	144	88	52	0	0	1	1	
Charlotte . . .	75	51	82	42	63	- 3	T	2.0	1.3	1.3	11.0	289	95	51	0	0	3	1	
Greensboro . . .	72	51	79	41	62	- 2	T	1.5	.8	.6	14.3	358	96	51	0	0	3	2	
Hatteras . . .	77	62	80	52	69	0	T	1.7	.5	1.0	13.8	212	79	54	0	0	3	2	
Raleigh . . .	77	52	82	40	64	0	T	1.1	.4	.2	7.3	174	99	52	0	0	3	0	
Wilmington . . .	77	61	84	56	69	0	T	.4	.5	.3	15.3	251	89	51	0	0	4	0	
N.DAK. Bismarck . . .	66	38	72	27	52	0	T	--	.2	T	.8	53	67	25	0	2	0	0	
Fargo . . .	61	34	68	23	48	- 5	T	.2	.3	T	.2	10	37	0	2	1	0	0	
Williston . . .	66	40	77	30	53	- 2	T	--	.2	T	.3	23	65	28	0	1	1	0	
OHIO. Akron-Canton . . .	62	49	75	40	56	- 2	T	.5	.1	.1	8.4	280	88	59	0	0	3	0	
Cincinnati . . .	63	44	76	37	54	- 8	T	.9	.4	.7	9.3	321	95	58	0	0	2	1	
Cleveland . . .	63	51	79	41	57	- 1	T	1.2	.6	.8	4.3	134	97	71	0	0	4	1	
Columbus . . .	64	46	78	39	55	- 4	T	.6	.2	--	7.4	274	92	53	0	0	--	0	
Dayton . . .	64	47	78	37	56	- 5	T	.9	.5	.4	4.3	165	86	51	0	0	4	0	
Toledo . . .	62	47	73	36	55	- 3	T	1.1	.6	.5	3.9	139	96	64	0	0	6	0	
Youngstown . . .	60	49	75	40	55	- 2	T	.8	.2	.3	6.0	200	96	67	0	0	4	0	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Oct. 7, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
OKLA.Okla. City . . .	84	50	94	45	67	0	0	- .7	0	.3	8	54	17	1	0	0	0
Tulsa	85	52	98	42	68	1	0	- .9	0	.1	2	63	20	1	0	0	0
OREG.Astoria	69	50	77	47	60	4	T	1.2	T	3.8	97	89	64	0	0	1	0
Burns	80	49	80	49	64	12	0	0	0	.5	100	53	18	0	0	0	0
Medford	88	49	96	46	69	11	0	0	0	.2	22	73	27	4	0	0	0
Pendleton	78	47	84	40	62	5	T	.2	T	.2	29	60	24	0	0	0	0
Portland	77	52	86	47	65	7	T	.6	T	.6	29	91	43	0	0	0	0
Salem	75	46	86	42	61	4	0	.7	0	.4	19	81	44	0	0	0	0
PA.Allentown	68	55	72	46	62	3	2.3	1.6	1.0	9.5	238	91	61	0	0	4	2
Erie	63	53	75	43	58	2	2.4	1.6	1.1	4.8	120	--	--	0	0	6	2
Harrisburg	67	53	72	47	59	- 1	2.5	1.9	1.0	9.1	303	78	66	0	0	5	2
Philadelphia	71	58	75	50	65	- 3	1.5	.9	.7	6.4	188	91	62	0	0	2	2
Pittsburgh	61	48	71	40	54	- 3	1.1	.5	.5	4.7	157	85	59	0	0	4	1
Scranton	66	55	73	45	60	- 3	2.6	2.0	1.0	7.8	244	66	57	0	0	5	2
R.I.Providence	68	55	75	49	61	4	2.5	1.8	--	6.6	178	87	61	0	0	5	2
S.C.Charleston	80	56	86	49	68	- 2	4.3	3.4	2.3	19.6	346	88	47	0	0	3	2
Columbia	80	52	86	41	66	- 3	1.4	.7	.8	9.9	206	99	49	0	0	2	2
Greenville	72	48	80	39	60	- 6	.6	.2	.6	7.9	184	92	52	0	0	1	1
S.DAK.Aberdeen	72	45	72	45	58	- 5	5	.4	0	0	0	60	21	0	0	0	0
Huron	68	34	74	25	51	- 4	T	.4	T	0	0	71	20	0	3	1	0
Rapid City	74	42	85	36	58	- 3	0	.2	0	.1	7	45	18	0	0	0	0
Sioux Falls	67	38	75	33	53	- 3	T	.5	T	4.1	128	78	31	0	0	1	0
TENN.Chattanooga . . .	72	50	82	42	61	- 4	.5	.2	.4	7.7	188	94	49	0	0	1	0
Knoxville	68	50	78	41	59	- 6	.3	.3	.3	2.9	91	89	54	0	0	2	0
Memphis	78	55	88	46	67	- 1	.1	.5	.1	3.2	94	79	35	0	0	2	0
Nashville	72	48	82	40	60	- 6	.5	0	.3	11.1	317	91	42	0	0	2	0
TEX.Abilene	92	58	103	48	75	5	0	.6	0	0	0	44	15	5	0	0	0
Amarillo	81	47	94	41	64	0	0	.5	0	.5	23	50	18	1	0	0	0
Austin	91	62	97	52	76	2	0	.8	0	1.4	33	67	23	5	0	0	0
Beaumont	85	62	89	48	73	- 1	0	1.0	0	6.4	108	92	49	0	0	0	0
Brownsville	87	63	89	57	75	- 3	0	1.0	0	8.7	145	95	51	0	0	0	0
Corpus Christi	90	64	92	56	77	- 1	0	.9	0	12.9	230	84	52	4	0	0	0
Del Rio	97	62	106	59	80	4	0	.6	0	.7	20	60	16	6	0	0	0
El Paso	94	51	96	45	72	3	0	.2	0	.4	31	47	14	6	0	0	0
Fort Worth	93	60	102	56	76	4	0	.7	0	1.0	27	61	18	4	0	0	0
Galveston	80	70	84	63	75	- 2	0	.9	0	10.1	166	82	58	0	0	0	0
Houston	88	57	91	46	72	- 2	0	1.0	0	9.1	172	56	46	1	0	0	0
Lubbock	86	52	98	42	69	3	0	.6	0	.2	7	45	15	2	0	0	0
Midland	90	56	99	47	73	3	0	.4	0	.1	5	43	14	5	0	0	0
San Angelo	93	55	98	48	73	2	0	.7	0	.1	3	51	18	5	0	0	0
San Antonio	92	61	98	50	76	2	0	.8	0	.8	19	72	25	4	0	0	0
Victoria	88	64	90	55	76	0	0	1.0	0	9.1	172	86	45	2	0	0	0
Waco	91	55	101	48	73	0	0	.7	0	2.5	66	78	27	4	0	0	0
Wichita Falls	88	53	102	45	71	0	0	.7	0	0	0	60	18	3	0	0	0
UTAH.Blanding	82	49	84	44	66	9	0	.3	0	.1	8	42	15	0	0	0	0
Salt Lake City	84	51	88	46	66	8	0	.2	0	.1	13	66	19	0	0	0	0
VT.Burlington	66	54	72	47	60	7	1.0	.4	--	5.3	156	75	61	0	0	--	--
VA.Lynchburg	70	49	80	37	60	- 2	2.1	1.5	.8	11.0	306	88	--	0	0	--	--
Norfolk	76	57	83	46	67	1	.3	.5	.2	13.9	302	64	48	0	0	2	0
Richmond	75	54	83	43	65	1	2.2	1.5	1.0	11.3	282	95	56	0	0	1	1
Roanoke	67	49	71	39	57	- 5	1.5	.7	.1	10.3	258	95	47	0	0	2	0
WASH.Colville	72	36	77	30	54	2	0	.3	0	.4	40	--	--	0	2	0	0
Omak	--	--	--	--	58	5	0	.1	0	0	0	--	--	0	0	0	0
Quillayute	70	46	77	42	58	4	T	2.1	T	6.9	97	96	57	0	0	1	0
Seattle-Tacoma	68	50	77	47	59	3	0	.7	0	1.1	42	86	52	0	0	0	0
Spokane	75	39	81	34	57	4	0	.3	0	.4	36	59	21	0	0	0	0
Walla Walla	81	48	85	48	65	6	0	.3	0	.3	27	55	23	0	0	0	0
Yakima	79	44	82	37	60	5	0	.1	0	.1	20	80	23	1	1	0	0
W.VA.Beckley	59	44	70	35	51	- 6	.6	0	.3	5.2	141	--	67	0	0	5	0
Charleston	62	47	70	39	55	- 7	1.0	.4	.6	4.9	148	89	58	0	0	4	1
Huntington	64	49	74	40	56	- 6	.3	.2	.1	5.6	175	89	58	0	0	3	0
Parkersburg	65	47	75	--	56	- 5	1.4	.9	--	5.3	171	85	60	0	0	--	--
WISC.Green Bay	56	39	60	33	48	- 6	.3	.3	.1	1.0	27	93	64	0	0	3	0
La Crosse	58	45	64	45	50	- 6	1.0	.4	--	1.4	38	93	65	0	0	--	--
Madison	59	35	68	29	47	- 7	.4	.2	.4	.5	14	97	56	0	2	2	0
Milwaukee	61	45	72	40	53	- 3	.3	.2	.2	.3	9	91	61	0	0	3	0
WYO.Casper	75	36	83	30	56	3	T	.2	T	.2	20	53	14	0	2	2	0
Cheyenne	73	40	81	30	57	4	T	.2	T	.3	25	39	15	0	1	0	0
Lander	77	44	81	33	59	7	0	.3	0	0	0	55	19	0	0	0	0
Sheridan	79	35	80	35	56	4	T	.3	T	.4	27	61	20	0	0	0	0
P.R.San Juan	88	76	89	74	82	1	.2	1.4	.2	10.3	149	93	65	0	0	3	0

Based on preliminary reports and 1941-70 normals

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Sunny, drier weather interrupted by showers 3d and 4th. Cooler after rains, lows in 30's, average 4° subnormal.

Fieldwork: 4.0 days suitable. Soil moisture adequate to surplus. Corn, soybean, peanut harvesting, wheat seeding main activities. Corn 70% harvested, 71% 1978, 48% average. Soybeans 78% turning yellow, 80% 1978; 50% dropping leaves; 33% mature, 54% 1978, 46% average; 7% harvested, 9% 1978, 8% average. Cotton 51% bolls open, 79% 1978, 53% average; 5% harvested, 34% 1978. Peanuts 50% dug, 80% 1978, 75% average; 40% combined, 64% 1978, 67% average. Wheat 27% seeded, 36% 1978. Sorghum 33% harvested, 36% 1978. Condition: Soybeans mostly good; cotton fair to good; pastures good; pecans mostly fair.

ARIZONA: Above normal temperatures, no rainfall. Temperatures 3 to 9° above normal.

Cotton harvest increasing; 12% picked, 13% last year, average 9%. Defoliation widespread. Insect counts very low. Harvest corn, sorghum seasonal progress. Alfalfa haying active; planting, renovation continued. Small grain activities range from leveling to planting. Lettuce harvest active southeast: early lettuce central, western areas good stands, some fields spotty due to hot weather. Other mixed vegetables making good progress. Cantaloup harvest full swing, good quality. Lemon harvest full swing Yuma, gaining momentum central. Limited grapefruit harvest underway central, west. Gasoline, diesel, LP gas supplies mostly adequate. Cattle, calves good condition. Little summer rain, ranges deteriorating. Some water hauling, supplemental feeding required.

ARKANSAS: Dry weather continued. Isolated thundershowers. Highest normal 70°, lowest 60°. Highest mean 72°, lowest 61°. Highest temperature 95°, lowest 28°.

Fieldwork: 6.1 days suitable. Soil moisture mostly adequate. Diesel 78% adequate, 18% tight; gasoline 86% adequate, 12% tight; LP gas 94% adequate. Soybean late planted fields need rain; 30% matured; 2% harvested, 6% 1978, 7% average. Soybean harvest increasing as growers finish rice. Cool temperatures slowed cotton boll development. Open bolls 51%, 85% 1978, 74% average. Defoliation continued. Excellent weather allowing rice harvest to continue at rapid pace; harvesting 54% complete, 82% 1978, 76% average. Corn harvest 42% complete, 44% 1978, 69% average. Sorghum harvesting increased as rice fields completed; combining 65% complete, 87% 1978, 72% average. Small grains planting slowed by dry weather, early stands need moisture. Wheat 15% seeded, 24% 1978, 27% average. Aerial seeding behind soybeans. Oats 19% seeded, 31% 1978, 33% average. Apple harvest complete. Fall vegetable harvest underway. Hay making completed; fields of alfalfa cut. Fields turned to pasture. Pastures average. Good forage. Cattle condition good. Insect problems persisted. Control measures being applied.

CALIFORNIA: Precipitation in south central coastal areas and southern San Joaquin Valley early period. Variable cloudiness elsewhere. Temperatures continued to range above normal topping 100° in south-west desert areas and 80's and 90's elsewhere over interior.

Cotton 6% harvested as defoliation continued. Rice 85% ripe, 22% harvested. Corn and milo harvest continued. Avocado, pomegranate, olive, table grape harvest continued. Almonds, walnuts, pistachios knocked. Broccoli, cauliflower, celery, bell pepper, market tomato, harvests continued. Large amounts cauliflower to processors, low quality Salinas-Watsonville. Lettuce harvest declining Salinas, increasing San Joaquin Valley areas. Cantaloup, honeydews decreasing San Joaquin and Sacramento Valleys, increasing desert areas. Processing tomato harvest declining as plants close for season. Fall potato harvest increasing Tulalake-Butte Valley. Calving increasing most areas. Sheep grazing harvested fields. Ranges dry; rains needed to start new grass. Some supplemental feeding. Farm fuel supplies adequate. Diesel, gasoline tight few local areas.

COLORADO: Several weak cold fronts passed through with only traces of precipitation. Gusty winds in mountains on 2d. Temperatures averaged 3 to 5° above normal.

Winter wheat seeded 96%, 93% 1978, 93% average; emerged 86%, 68% 1978, 71% average. Spring wheat harvested 93%, 100% 1978. Corn dented 97%, 100% 1978; harvested grain 4%, 15% 1978, 17% average; harvested silage 90%, 100% 1978, 98% average. Dry beans cut 94%, 100% 1978, 97% average; threshed 78%, 85% 1978, 79% average. Alfalfa third cutting 96%, 100% 1978. Fieldwork: 6.5 days suitable. Ranges and pastures good condition. Livestock very good condition. Fuel supplies mostly adequate.

FLORIDA: Showers widely scattered with very little rain through midweek. Thundershowers scattered over south on 4th. Cold front on 5th with scattered showers ahead of front. Dry, cool air followed front. Only significant rain in south where 1.00 to 2.00 in. fell. Lows in 60's and 70's on 1st, cooling to 40's and 50's on 6th except 70's extreme south and warming to mainly 50's and 60's on 7th. Highs mainly in 80's except 70° Panhandle, north on 5th.

Pasture condition fair to good; surplus moisture in low areas. Cattle condition good. Winter forage planting begun northern areas. Soil moisture variable, mostly adequate north and west, adequate to mostly surplus central and south. Peanut, late corn harvest delayed by showers. Peanut yields reduced by excessive moisture. Soybean harvest to begin this week. Sugarcane mostly excellent condition. Cutting cane for seed continued. Land prepared for planting small grains, planting underway. Fuel supplies adequate most areas, some localities tight in central areas. Weather conditions vegetable farming area greatly improved. Mild nights, warm days prevailed. Land preparation, planting active. Crop conditions improving. Disease generally under control, active spray programs. Harvest increasing sweet corn, cucumbers, eggplant, squash. Harvest starting snapbeans, tomatoes. Quality good. Plant growth, fruit set expected to improve. Harvest gaining as season progresses. Citrus tree condition improved after very little rain. High sand hill soils good condition; low, wet soils still have problems with drainage. Harvest starting slowly due to lagging maturity.

GEORGIA: Temperatures averaged near normal ranging from mid-60's north to low 70's south. Rainfall mainly early week, then drier. Amounts variable averaging 1.00 to 2.00 in. north and coast, and mostly less than 0.50 in. remainder south. Dry and cool weekend with first frost of season in mountains.

Soil moisture adequate to surplus. Fieldwork: 3 days suitable. Corn fair to good: 81% harvested, 83% last year, 64% average. Soybeans fair to mostly good: 3% harvested, 9% last year, 4% average. Peanuts fair to good; 74% dug and 60% threshed, last year 92% dug and 86% threshed, average 86% dug and 78% threshed. Cotton fair to good; 16% harvested, 25% last year, 17% average. Pecans fair to good; 1% harvested, 3% last year, 2% average. Apples fair to mostly good; 96% harvested, 94% last year. Hay crops fair to mostly good. Pastures, hogs, cattle good. Wheat 16% planted, 11% last year. Rye 19% planted, 12% last year. Other small grains 17% planted, 12% last year. LP gas 97% adequate. Diesel fuel 92% adequate, 8% tight. Gasoline 93% adequate, 7% tight.

HAWAII: Hot, humid weather prevailed. Best rains in several weeks brought cooling effect to some areas improving the condition of leafy vegetable crops. Spraying frequent to control insect infestations.

Vegetable supplies: Snap bean harvest light. Insect damage reducing yields. Semi-head lettuce harvest gradually increasing. Others adequate. Banana supplies steady. Papaya supplies light but expected to increase. Rains beneficial in major producing areas. Pineapple harvesting down seasonally. Sugar harvesting steady. Pastures generally good. Fuel supplies adequate.

IDAHO: Temperatures averaged about 6° above normal. Extremes: 89 and 14°.

Potato digging 50% completed, 40% last year. Third cutting alfalfa hay 85% cut, 75% last year. Corn for silage 80% harvested, 70% 1978. Beginning corn for grain. Onions 80% dug, same as 1978. Apples 20% picked, slowed by high temperatures. Red clover and alfalfa seed harvest both 75% done. Very limited sugarbeet digging. Dry beans 90% combined. Winter wheat and winter barley seeding delayed in very dry north. State-wide 75% completed, last year 65% winter wheat seeded, 70% average. Austrian peas 75% seeded. Ranges extremely dry forcing early removal of cattle, sheep.

ILLINOIS: Temperatures 5 to 9° below normal, except extreme south 2° below normal. Precipitation 0.50 to 1.00 in. most areas, west southwest less 0.10 in.

Soil moisture short to adequate. Corn 10% harvested, 22% 1978, 17% average. Soybeans 60% combined, 55% 1978, 47% average. Sorghum 20% harvested. Winter wheat 27% seeded, 30% 1978, 33% average. Pasture conditions fair to good. Fieldwork: 5.5 days suitable.

INDIANA: Temperatures averaged 5° below normal. Lowest 34°, some light frost in low areas north. Rainfall 0.80 in. south, 1.60 in. north.

Fieldwork: 4 days suitable. Topsoil moisture mostly adequate to surplus. Subsoil moisture adequate. Corn 10% harvested, 1978 15%, average 10%; 90% mature, 1978 90%, average 85%. Soybeans 25% harvested, 1978 25%, average 30%; 80% mature, 1978 75%, average 80%; shedding leaves 100%, 1978 100%, average 100%. Wheat land 65% plowed, 1978 70%, average 75%. Wheat 30% seeded, 1978 35%, average 35%. Tobacco harvest 95% complete,

1978 95%, average 70%. Rye 60% seeded, 1978 45%, average 55%.

IOWA: Cool, dry. Light to moderate frost 5th and 7th.

Fieldwork: 6.4 days favorable. Corn condition very good; mature 98%, 1978 100%, normal 100%; harvested 10%, 1978 21%, normal 18%. Soybean condition mostly good; acreage leaves shedding 99%, 1978 100%, normal 100%; mature 93%, 1978 97%, normal 99%; harvested 49%, 1978 36%, normal 43%. Topsoil moisture short to adequate. Subsoil moisture adequate. Livestock good condition; market movement normal, herd replacement slow. Pasture condition mostly good, only fair southwest and south central.

KANSAS: Warm, dry. Moisture traces east, otherwise none. Temperatures averaged 66° south central to 62 to 64° elsewhere; 5° above normal northwest to normal or 2° above east and south.

Corn 40% harvested, 30% average, 45% last year; 90% mature, equals average, 95% last year. Sorghum 25% harvest, 20% average, 25% last year; 80% mature, 70% average, 75% last year. Soybean harvest 25% complete, average 10%, last year 20%. Wheat seedings 65% complete, 70% average, 75% last year.

KENTUCKY: Near normal precipitation and much below normal temperatures. Precipitation averaged 0.50 in. Temperatures 3 to 6° below normal.

Soil moisture mostly surplus. Fieldwork very limited with none in lowland river bottom areas. Corn lodging and twisting many areas. Farmers fear ear droppage and harvesting losses will be greater than usual. Soybean harvest 10% complete, last year 23%, average 16%. More soybean acreage damaged and lost to flooding than corn. Many late beans have leaves entirely green and a killing freeze would cause damage. Fall wheat 15% seeded. Pastures lush. Corn harvest 20% complete, last year 36%, average 27%.

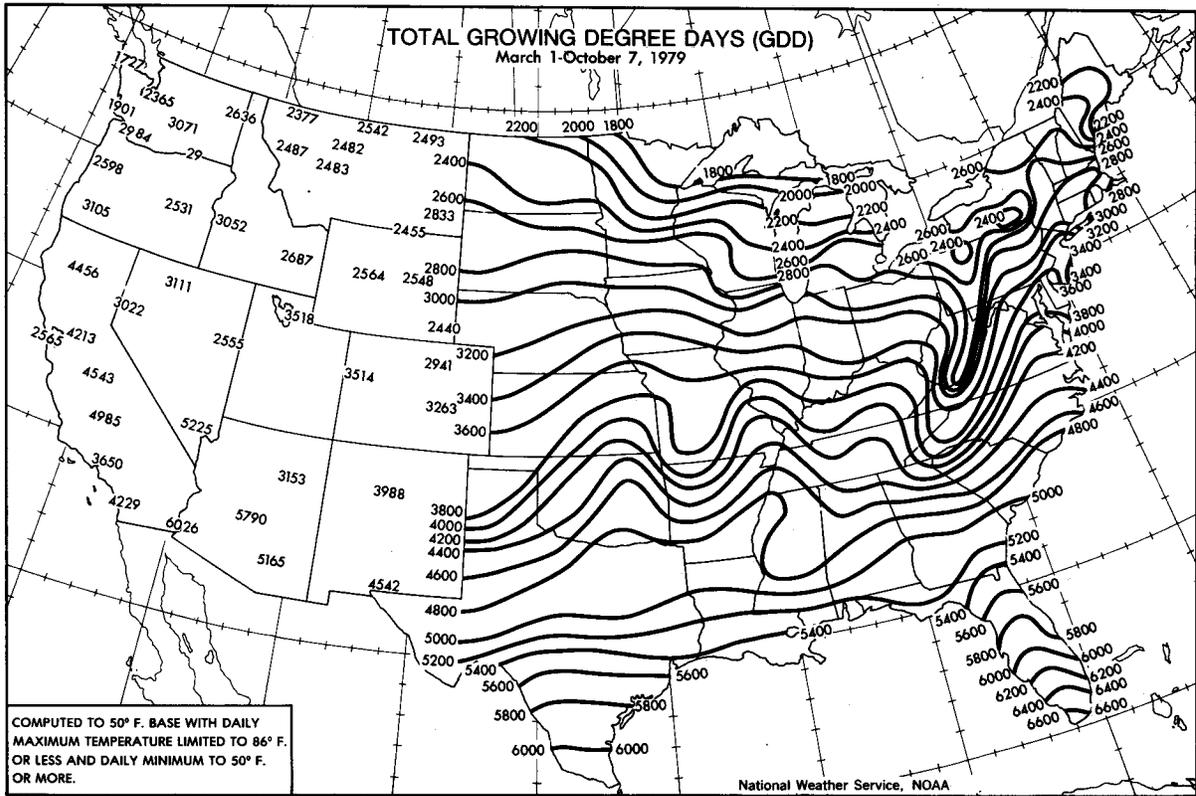
LOUISIANA: Temperatures normal to 3° below normal. Extremes: 94 and 39°. No rain.

Fieldwork: 6.2 days suitable. Soil moisture adequate. Soybeans good; 76% leaves turning, 82% last year; 50% shed leaves, 58% last year; 17% harvested, 20% last year, 25% average. Rice 94% harvested, 96% last year. Cotton good; 52% bolls open, 85% last year, 79% average; 4% harvested, 29% last year, 19% average. Corn 95% harvested, 94% last year, 90% average. Sorghum 90% ripe; 85% harvested, 80% last year, 77% average. Sweet-potatoes 67% dug, 72% last year, 69% average. Sugarcane 84% planted, 64% last year, 72% average; good condition. Oats and wheat 36% planted, 49% last year, 45% average. Pecans fair. Hay good. Pasture fair to good. Cattle good.

MARYLAND & DELAWARE: Temperatures averaged 4° above normal. Highs in upper 60's to mid-70's and lows in mid-50's to low 60's except upper 40's in mountains. Precipitation moderate to heavy, averaging 2.00 to 3.00 in.

Fieldwork: 2.5 days suitable. Soil moisture surplus. Fuel supplies adequate. Corn mature 90%, 100% last year, 96% normal. Harvest for corn silage 75%, 93% last year, 90% normal. Harvest for grain 45%, about equal to average, 51% last year. Soybeans yellowed 60%, 77% last year, 71% normal; 50% shed leaves, 70% last year, 55% normal.

MICHIGAN: Cold, wet. Temperatures averaged 3 to 7° below normal. Frequent showers. First significant rainfall in over month.



Fieldwork: 5 days suitable. Soil moisture short. Pasture feed supplies below average. Corn 99% dented, 100% last year and normal; 56% mature, 75% last year, 67% normal; 4% harvested, 6% last year and 7% normal. Soybeans shedding leaves 93%; mature 44%, 57% last season, 52% normal; 8% harvested, 6% last year, 12% normal. Winter wheat 75% seeded, 60% last year, 62% normal. Corn silage 75% chopped, same last year and normal. Dry beans 90% harvested, 80% last season, 72% normal. Potatoes 71% dug, 57% last year, 63% normal. Sugarbeet harvest 5%, same last fall and normal. Third cut haymaking over 90%, 83% last year, 75% normal. Grape harvest 45% complete. Red Delicious, Jonathans, Northern Spies half picked; McIntosh 95% picked. Cabbage 65% harvested, celery 90% harvested, onions 100% harvested.

MINNESOTA: Temperatures averaged 2 to 7° below normal except locally extreme northeast. Extremes: 84 and 23°. Precipitation averaged near normal central, east central; up to 0.50 in. below normal elsewhere. Precipitation light with several stations reporting none except south central, southeast near 0.50 in.

Soybean, sunflower, potato harvests made good progress particularly in drier northwest and west central. Most late season crops now mature. Soil moisture adequate in all except northwest, west central, central where short. Corn 85% mature, 1978 97%, normal 93%; picked 2%, 1978 16%, normal 24%; silage 61% cut, 1978 89%, normal 95%. Soybeans 84% mature, 1978 97%, normal 97%; combined 35%, 1978 47%, normal 56%. Harvested: Sunflowers 23%, 1978 52%, normal 42%; flax 82%, 1978 88%, normal 89%; potatoes 77%, 1978 73%, normal 74%; sugarbeets 11%, 1978 43%, normal 21%.

MISSISSIPPI: Temperatures 1 to 3° below normal. Extremes 35 and 92°. Most areas recorded rain once.

Soil moisture adequate. Fieldwork: 5.3 days suitable. Cotton and soybean harvest increasing. Seeding of winter pastures beginning. Soybeans 75% shedding, 82% 1978, 76% average; 30% mature, 44% 1978, 41% average; 8% harvested, 16% 1978, 14% average; condition good to fair. Cotton 92% open bolls, 97% 1978, 84% average; 6% harvested, 37% 1978, 21% average; condition fair to good. Rice 97% mature; 63% harvested, 82% 1978, 66% average; condition good to fair. Sorghum 92% ripe; 63% harvested, 80% 1978, 69% average. Hay crops 90% harvested, 92% 1978, 89% average. Sweet-potatoes 45% harvested, 56% 1978, 55% average. Peanuts 65% harvested, 69% 1978, 67% average. Winter wheat 28% planted, 43% 1978, 39% average. Pecan condition mostly poor. Diesel and gasoline supplies adequate to tight; LP gas supplies adequate.

MISSOURI: Temperatures 1 to 4° below normal, coldest northeast Prairie. Precipitation scattered, mostly below 0.10 in.

Fieldwork: 6.2 days suitable. Corn 87% mature, last year 75%, normal 86%; 31% harvested, last year 28%, normal 37%. Soybeans 92% turned color or beyond, last year 86%; 66% mature, last year 40%, normal 60%; 30% harvested, last year 15%, normal 16%. Grain sorghum 86% mature, last year 78%, normal 80%; 37% harvested, last year 34%, normal 33%. Cotton 91% with open bolls, last year 100%, normal 60%; 23% harvested, last year 31%, normal 13%. Winter wheat 35% seeded, last year 35%. Plowing for spring planted crops 15% complete, last year 10%. Pastures mostly poor to fair. Soil moisture supplies mostly short. Fuel supplies for farmwork tight to adequate.

MONTANA: Warm, dry. Temperatures averaged 2 to 4° above normal. First overall freeze of season midweek. Most areas received no rain.

Soil moisture short. Fieldwork: 7 days suitable. Winter wheat 80% planted, 80% 1978, 90% normal. Winter wheat in fair condition. Corn silage harvested 90%, 85% 1978, 85% average. Dry beans harvested 90%, 75% 1978, 75% average. Potatoes harvested 45%, 30% 1978, 40% average. Sugarbeets harvested 20%, 25% 1978, 20% average. Cattle 60%, sheep 65% moved from summer ranges. Livestock in good condition.

NEBRASKA: Temperatures 4° below normal except Panhandle 4° above normal. Precipitation light; less than 0.05 in. northwest and northeast. Other areas no precipitation.

Corn maturity 85%, year ago 95%, normal 95%; harvest 5% complete, year ago 10%, normal 15%. Sorghum ripe 80%, year ago 95%, normal 95%; harvest 15% complete, year ago 30%, normal 30%. Soybean leaves shed 95%, year ago 95%, normal 95%; harvest 50% complete, year ago 45%, normal 40%. Wheat seeding 95% complete, year ago 100%, normal 95%. Diesel 90% adequate, 10% tight. Gasoline 95% adequate, 5% tight. LP gas adequate. Fieldwork: 7.0 days suitable.

NEVADA: Dry, warm Indian summer weather continued. Daily record-breaking highs northern areas. Temperatures averaged above normal. Extremes: 98 and 20°. Trace rain south.

Dry weather aiding potato digging. Excellent progress also made alfalfa seed combining and winter grain seeding.

NEW ENGLAND: Abundant rain every other day beginning 1st; 4.00 to 7.00 in.. Temperatures averaged 8 to 16° above normal, especially in far north.

Maine potato harvest winding down in northern Aroostook County at 75% complete. Northern Maine and Vermont received only suitable harvesting weather. Corn for grain mature but rain delayed harvest. Vegetable harvest complete; most fields cleared and planted to cover crops. Apples 50 to 90% harvested. Fuel supplies adequate. Available grazing short to good. Soil moisture adequate to surplus.

NEW JERSEY: Temperatures averaged 1 to 2° above normal. Extremes: 39 and 77°. Rainfall averaged 2.26 in. north, 1.77 in. central, 0.77 in. south.

Fieldwork: 3.6 days suitable. Soil moisture adequate to surplus. Fall crops moving to market. Irish potato harvest over 75% complete. Apple and cranberry harvest active. Harvest of corn for grain progressing as weather conditions permit. Early soybeans ready to combine. Grain and cover crop seeding continue as conditions permit. Farm fuel supplies adequate.

NEW MEXICO: No rain. Temperatures averaged 2 to 6° warmer than normal. Some cooling midweek, warming again late week.

Open weather favorable to crop advancement and outdoor activity. All crops in good condition. Sorghum grain, corn, cotton harvest starting, but will remain slow for sorghum and cotton for another two weeks due slow maturity. Cotton 40% open, about same as last year but behind average. Fall lettuce harvest starting, continuing red chile, apples. Pecans filling well.

NEW YORK: Frequent rains slowed harvest of all crops. Corn silage 54% complete, 70% last year. Grain corn less than 10% harvested. Wheat planting finishing up this week. Third cutting alfalfa 78% harvested, 75% last year. Onion and

potato harvest active. Cabbage crop experiencing some splitting. McIntosh apple harvest complete. Cortland harvest active and Delicious becoming more active. Grape harvest continued with good sugar content.

NORTH CAROLINA: Rain early and late week; 0.36 to 7.02 in.

Fieldwork: 2.7 days suitable. Soil moisture adequate to surplus. Condition of soybeans, pasture fair to mostly good; peanuts and cotton mostly fair to good; vegetables mostly fair. Harvested: Burley tobacco virtually complete, 1978 97%, average 94%; peanuts dug 8%, 1978 35%, average 48%; peanuts threshed 4%, 1978 23%, average 30%; sweetpotatoes 52%, 1978 65%, average 52%; corn for grain 69%, 1978 80%, average 70%; apples 61%, 1978 81%, average 72%; sorghum grain 28%, 1978 58%; cotton 12%, 1978 9%, average 7%. Planted: Wheat 10%, 1978 14%. Phenological stages: Cotton open boll 66%; soybeans pod set 94%; soybeans leaf drop 15%.

NORTH DAKOTA: Dry, windy. No significant rain until 8th when light rain covered much of State. Amounts averaged around 0.01 in. Maximum 0.23 in. southwest. Winds increased during afternoons, and on 2d gusts near 50 mph recorded near Bismarck. Temperatures averaged near normal east and up to 5° above normal west. Extremes: 79° southwest to 22° northeast and southeast.

Small grain harvest virtually completed. Durum wheat 98% combined, last year 99%, average 96%. Sunflower harvest beginning in most areas. Killing frosts many areas helped speed drying of sunflower. Combining of sunflower 11% complete, last year 29%, average 18%. Rapid progress potato digging; 82% dug, last year 71%, average 75%. Dry bean harvest about done. Flax about 75% complete, soybeans about 50%, corn for grain about 25%. Absence of significant showers. Soil moisture short.

OHIO: Temperatures mild, drying conditions poor, light rain nearly every day. High temperatures 70's, lows mid-30's; average 2 to 4° below normal. Little frost reported. Rainfall slightly above normal and scattered over several days.

Wet conditions hampered harvest. Wheat beginning to emerge, condition good. Wheat planting slow due to wet surface soils and delayed soybean harvest. Apple picking full swing, some cider being made. Corn mature 95%, 90% 1978, 95% average. Corn harvested 10%, near 15% 1978, 15% average. Soybeans harvested 15%, 30% 1978, 30% average. Corn silage harvested 70%, 90% 1978, 85% average. Wheat planted 35%, 50% 1978, 45% average. Potatoes harvested 65%, 70% 1978, 75% average. Sugarbeets harvested less than 1%, 5% 1978, 10% average. Fieldwork: 3.5 days favorable. Pasture condition good. Soil moisture adequate to surplus.

OKLAHOMA: Temperatures 1 to 3° above normal west; 1 to 3° below normal east. No rainfall.

Dry weather continued; late season crops need additional precipitation. Wheat seedbed preparation 100% 1979, 1978 and average. Wheat planted 60%, 70% 1978, and 60% average; up to stand 25%, 15% 1978, 25% average. Sorghum mature 85%, 75% 1978, 80% average; harvested 20%, 15% 1978, 20% average. Cotton open bolls 60%, 70% 1978, 45% average. Fieldwork: 6.7 days suitable.

OREGON: Temperatures 5 to 15° above normal. Dry conditions prevailed; light rain recorded on north coast.

Soil moisture mostly short. Winter wheat 51% seeded, 20% emerged. Harvesting late grains finishing up in higher elevations. Peppermint being planted. Dry bean harvest well underway in Hermiston area. Third and fourth cutting hay still being made. Anjou harvest complete, Newton harvest underway in Hood River. Red Delicious picking started; color on reds coming slow. Harvest of filberts and walnuts continued. Cranberries now coloring well. Onion harvest winding down. Sweet corn harvest to finish next week. Potato harvest underway all areas. Livestock condition good. Range and pasture condition poor to good. Hay short in some areas. Cattle moving to fall ranges; forage short due to dry conditions.

PENNSYLVANIA: Almost daily rainfall with a slow trend to colder temperatures. Extremes: 78 and 32°. Rainfall brought 3.50 in. to southeast on 1st, 2.50 in. to north central 5th.

Fieldwork: 3 days suitable. Soil moisture surplus to adequate. Activities: Haymaking; fall plowing; harvest of potatoes, corn, soybeans, fruits and vegetables and ensilage corn; silo filling; seeding small grains. Potatoes 81% dug, last year 76%. Corn 43% dented, last year 42% dented, normal 35%; 48% mature, last year 50%, normal 54%; 5% harvested, last year 6%, normal 8%. Fall plowing 83%, last year 78%. Wheat sown 59%, last year 67%, normal 61%. Barley sown 85%, last year 88%. Hay quality mostly poor to fair. Feed from pastures average to above.

PUERTO RICO: Island average rainfall 3.64 in. or 1.77 in. above normal. Temperatures averaged about 81° on coasts and 76° interior. Extremes: 93 and 61°.

SOUTH CAROLINA: Warmer than usual first, cooler at close. Scattered heavy rain about midweek.

Soil moisture adequate to surplus. Fieldwork: 3 days available. Corn harvest slowed, 84%, 91% last year, 82% average. Cotton open bolls 91%, 96% last year, 87% average; harvested 13%, 35% last year, 18% average. Soybean condition fair to good, maturing slow; leaves turning 32%, 75% last year, 62% average; shedding leaves 14%, 46% last year; mature 4%, 8% last year, 9% average. Wheat planted 3%, 9% last year, emerged 2%. Winter grazing 48% planted, 44% year ago, 47% average; emerged at 36% compared to only 19% last year. Apple harvest 89%, same as year ago. Peanuts 26% harvested, 57% last year, 56% average. Fall snap beans poor to fair condition; 36% harvested. Cucumbers good condition; 10% harvested.

SOUTH DAKOTA: Average temperatures 1 to 5° sub-normal east, 1 to 5° above normal central and west. Extremes: 92 and 22°. Rainfall light.

Silage cutting near completion. Row crop harvest picking up, especially soybeans and sunflowers. Main farm activities: Mending fences, moving cattle to market, cutting silage, hauling hay, row crop harvest. Topsoil moisture short except southeast corner adequate. Grain transportation and storage problems continued. Spraying underway. Fieldwork: 6 days suitable. Fall sown grains in good condition but moisture needed. Farm fuel supplies mostly adequate. Corn for grain 8% harvested, 1978 12%, average 19%. Soybeans 40% harvested, 1978 23%, average 37%. Sunflowers 18% harvested, 1978 11%. Grain sorghum 13% harvested, 1978 13%, average 31%. Alfalfa seed 65% harvested, 1978 41%. Winter wheat 90% emerged. Rye 93% emerged.

TENNESSEE: Cold fronts early and midweek with light showers. Amounts averaged 0.50 in. or less.

High temperatures mid-60's to mid-70's. Lows mid-50's to mid-60's.

Soil moisture adequate to surplus. Fieldwork: 3.5 days suitable. Pastures good condition. Corn mature 88%, 1978 98%, average 88%. Harvested for grain 24%, 1978 45%, average 30%. Cotton open bolls 49%, 1978 85%, average 64%; harvested 2%, 1978 37%, average 20%. Soybeans turning color 87%, 1978 90%; dropping leaves 48%, 1978 53%; mature 11%, 1978 29%, average 30%; harvested 1%, 1978 6%, average 4%. Burley tobacco stripped 17%, 1978 19%, average 18%. Wheat seeded 35%, 1978 37%, average 40%. Oats seeded 57%, 1978 56%, average 62%. Row crops fair condition. Fuel supplies adequate.

TEXAS: Clear skies, near normal temperatures and no precipitation dominated.

Warm, dry weather prevailed enabling producers to harvest at steady pace. Warm temperatures promoted maturing, opening cotton on Plains. Seeding small grains Low Plains, Cross-Timbers. Edwards Plateau moved at slow pace due to lack of moisture. Moisture conditions vary from very short Low Plains to adequate Coast. Fall land preparation continued with dry conditions slowing progress Blacklands, Trans-Pecos. Moderate to heavy winds caused some lodging corn, sorghum on High Plains. Cotton matured rapidly, warm weather promoted boll opening Plains; 48% cotton fields had bolls opening. Defoliation continued Edwards Plateau, Cross-Timbers, Low Plains. Producers preparing harvesting, hauling equipment. Harvest in full swing South Central Texas and Southern, Central Blacklands. Corn harvesting continued High Plains; 55% harvested, remainder of State virtually harvested. Warm, dry temperatures needed to complete harvest High Plains. Sorghum harvest progressed to Northern High Plains; crop reaching maturity. Open weather facilitated harvesting on Plains. Good yields noted on dryland and irrigated fields. Dry conditions hamper peanut harvest. Harvest of early varieties nearing completion Cross-Timbers, Blacklands. Sunflowers maturing rapidly. Harvesting activity increasing. Planting of wheat continued. Producers in Low Plains, Edwards Plateau, Cross-Timbers experiencing dry conditions, slowing planting and emergence. Cotton open bolls 48%; harvested 15%, 22% 1978, 22% average. Sorghum mature 81%; harvested for grain 71%, 73% 1978, 70% average. Wheat planted 58%, 55% 1978, 62% average; emerged 31%. Corn harvested 75%, 66% 1978, 68% average. Peanuts 50%, 34% 1978, 44% average. Soybeans 5%, 9% 1978, 8% average. Sugarbeets 0%, 6% 1978, 10% average. Sunflowers 18%, 21% 1978, 42% average. Barley planted 25%, 4% 1978. Flax planted 5%, 1% 1978, 0% average. Oats planted 43%, 63% 1978, 57% average.

Lower Rio Grande Valley planting cabbage, carrots, onions and lettuce active. Bell peppers and tomatoes setting fruit and making good progress. Citrus fruit sizing well; growers continued insect control measures. Coastal Bend harvest of early cucumbers progressed rapidly. San Antonio-Winter Garden onion sets and carrots make good growth. Other vegetables developing well. Cucumber harvest continued. Eagle Pass cucumber harvest active. Most fall vegetables progressing well. East Texas sweetpotato harvest making rapid progress. Some truck gardens being harvested; late watermelons move to market light volume. Central Texas, fall tomatoes blooming and setting fruit. North Texas, hot, dry weather takes its toll on fall vegetables; insects and disease problem some areas. High Plains harvest bell peppers, tomatoes, cabbage and cucumbers continued. Carrots and lettuce progressing well. Trans-Pecos. Bell pepper, tomato, watermelon harvests continued. Onion planting active. Pecans splitting shucks,

harvest underway light volume South and South central. Walnut caterpillar and pecan weevil damage Central Texas. Some droppage from dry weather.

Pastures and ranges continued to deteriorate some areas from hot, dry weather. Grass supplies short in Central Texas, few ranchers culling herds to move stock off overgrazed pastures. Cattle continued good to excellent condition.

UTAH: No precipitation.

Soil moisture very short. Fieldwork: 7 days suitable. About 70% winter wheat seeded. Third crop alfalfa hay 95% cut. Corn silage 75% chopped with corn for grain about 15% complete. Alfalfa seed 75% harvested. Potatoes 65% dug. Dry onions 60% harvested. Apple harvest approaching midpoint. Cattle and sheep movement from summer range 60% finished. Of expected movement to slaughter market 70% of sheep and lambs and 25% of cattle had been moved. About 40% of cattle and 60% of sheep and lambs expected for feeder market moved.

VIRGINIA: Cloudy, rainy, mild first of week, turning cooler with generally fair skies over weekend. Temperature extremes from near freezing to mid-80's. Rainfall heavy from scattered thunderstorms 1st, middle of period. Rainfall from less than 1.00 in. to several inches averaging 1.00 to 2.00 in.

Topsoil moisture mostly surplus. Fieldwork: 1.7 days available. Rains delaying fall harvest and small grain seedings. Corn combined 45%, 49% 1978, 45% average; corn for silage over-mature, some to be harvested as grain. Peanut digging 10%, 37% 1978, 35% usual; combining 1%, 20% 1978, 17% average. Soybeans combined 1%, 3% 1978, 4% usual; Tidewater 1%, 3% 1978; southeast 0%, 1% 1978. Soybean leaves beginning to drop southeast. Small grain seeding: Wheat 4%, 10% 1978, 17% average; barley 13%, 20% 1978, 36% usual; winter oats 12%, 29% 1978, 41% average. Some sun-cured tobacco molding in barns. Apples 56% picked, 56% 1978, 59% usual. Eastern Shore sweetpotatoes 50% dug, 35% 1978. Open cotton bolls damaged by rains. Pumpkins being picked. Pastures good to excellent. Late hay-making delayed north. Cattle marketings active.

WASHINGTON: West: Temperatures 1 to 4° above normal. Precipitation below normal.

Harvests underway include potato, silage corn, sweet corn, carrot, celery, cabbage. Pumpkin, squash harvests started. Cauliflower harvest finished. Hay supply adequate. Small grain and flower bulb planting continued. Christmas tree shearing and raspberry pruning underway.

East: Temperatures averaged normal to slightly above. Precipitation below normal.

Apple harvest in full swing. Potato, corn, grape, clover seed harvests continued. Dry and

green bean harvests winding up. Wheat and barley seeding under irrigation but many dryland farmers waiting for rain. Range forage short. Cattle movement continued. Weed control being practiced. Winter wheat planted 67%, last year 68%.

WEST VIRGINIA: Temperatures mixed, low 33°, high 78°. Precipitation much above normal.

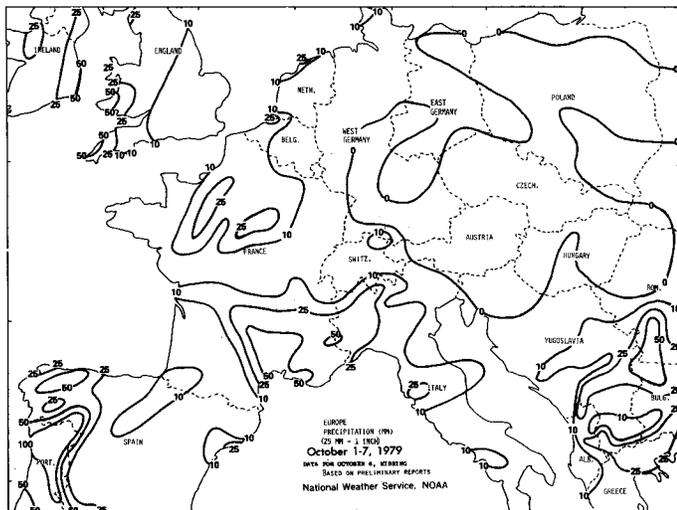
Fieldwork: 1.8 days suitable. Soil moisture adequate to surplus. Main activities: Chopping corn silage, tending livestock, mending fences. No progress on seeding small grains: Wheat 28%, 30% average, 46% 1978; barley 39%, 50% average, 47% 1978. Harvesting progress: Corn for grain 19%, 33% average; 2d hay 87%, 92% average, 96% 1978; 3d hay 55%, 71% average, 75% 1978; potatoes 88%, 53% average, 92% 1978; tobacco 85%, 94% average and 1978. Livestock good shape. All other crops remaining for harvest good to fair. Fuel supplies adequate. Pastures good to excellent.

WISCONSIN: Temperatures averaged 3° below normal. Highs in 60's and few 70's beginning week but declined to 50's and 40's after midweek. Lows in 30's and upper 20's. Extremes: 74 and 25°. Frost occurred in some areas morning of 5th and 7th. Rainfall totaled 0.50 to 1.00 in. with heaviest amounts 1st and 3d.

Fieldwork: 5 days suitable. Corn for grain 2% harvested, 1978 6%, normal 7%. Most corn still too high in moisture for crib storage without artificial drying. Silo filling 45% done, 1978 50%, normal 75%. Fields dry for corn harvest as fall rains below normal. Soybeans 4% harvested, 1978 none, normal 5%. Moisture content of some beans at 10 to 12%. Fall plowing 10% done, 1978 12%, normal 15%. More rain needed for fall plowing and development of winter wheat. Most haying completed, another large crop in storage. Fall pastures declined due to dry weather in September. Tobacco curing well. Sweet corn harvest near end, some late vegetable crops still being harvested. Potato digging proceeded rapidly in dry field conditions. Picking continued for later apple varieties. Cranberry harvest underway. Topsoil moisture supplies short to adequate; subsoil moisture adequate.

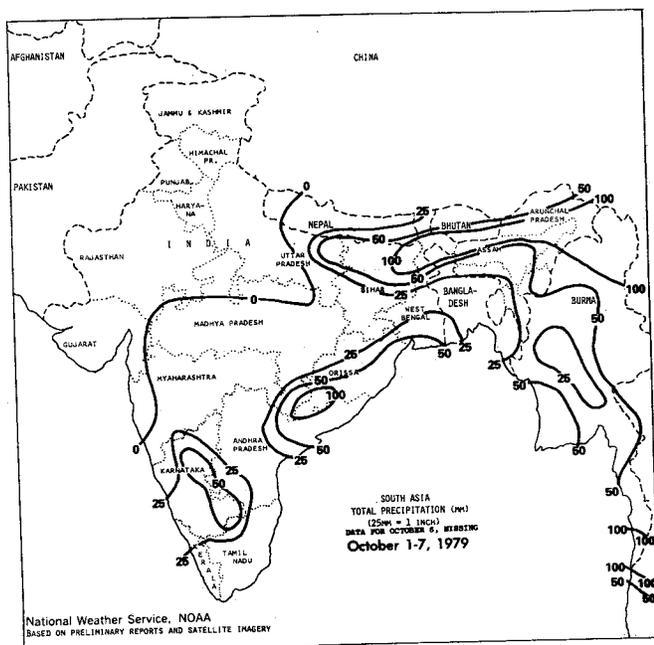
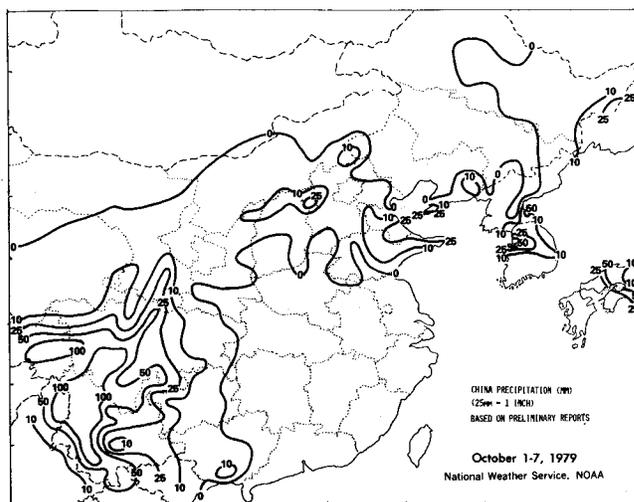
WYOMING: Temperatures ranged from 1 to 7° above normal. Precipitation below normal. Many stations no precipitation.

Topsoil moisture short. Fieldwork: 7 days suitable. Most winter wheat planted, 83% emerged, fair to good stands. Additional moisture needed for optimum development. Acreage harvested: Potatoes 83%; sugarbeets 31%; dry beans 81%. Corn for grain 51% mature, 20% harvested. Cattle and calves contracted 47%, marketed 20%. Sheep and lambs contracted 62%, marketed 30%; contracting and marketing slower than last year. Stock water adequate.

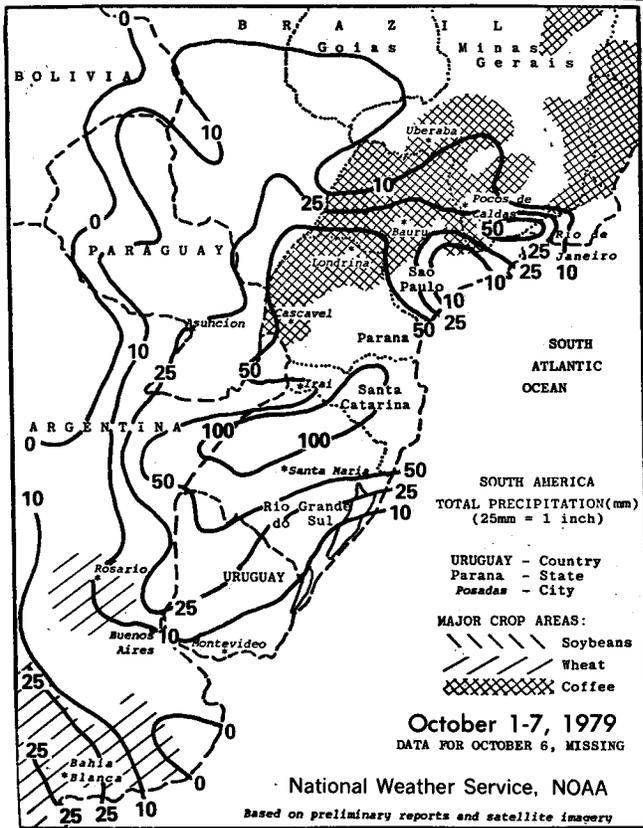


EUROPE. Very little precipitation fell over the northeastern half of Europe, but above-normal amounts covered much of France and northern Italy. Maize harvesting has been completed in Mediterranean areas, but the harvest in more-northerly areas in France slowed somewhat due to the disruptive rains. Likewise, disruption of harvest activities likely occurred in Romania due to relatively heavy rainfall.

CHINA. Virtually no rains fell over the southeastern half of the country giving the mature crops a chance to dry out. Substantial rain fell only in the hilly southwestern part of the country and had little agricultural significance. Winter grain sowing began, with good soil moisture present in nearly all areas.

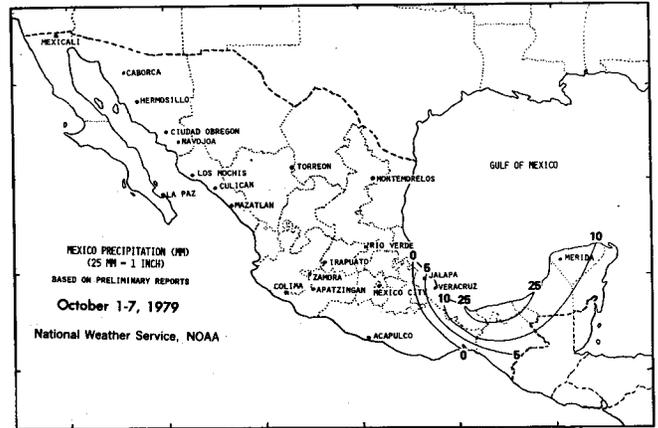


INDIA. Rainfall decreased in most areas and occurred in a near-normal pattern for October. Portions of the northeastern states may have become a little too wet as the harvest neared, but the northwest remained rainless. Little precipitation is expected in this latter area until December, and winter grain sowing will probably be delayed. Moderate rains in the south generally complemented last week's rains.



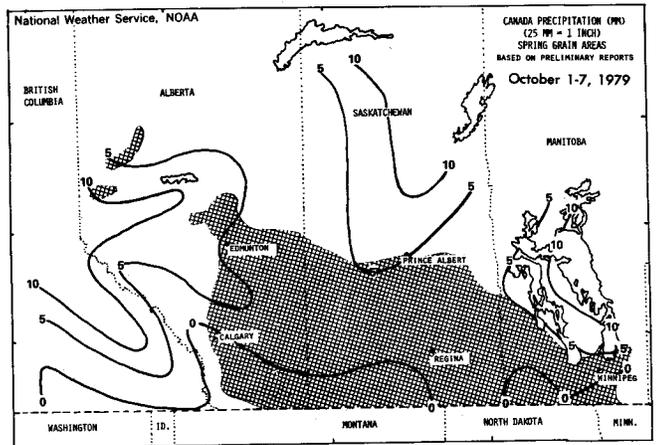
SOUTH AMERICA. Heavy rains continued in Brazil's Rio Grande do Sul state, but shifted slightly to the north so that the greatest amounts fell on the major soybean area there. Soil moisture is plentiful as the November planting approaches. On the other hand, substantial damage to the maturing winter grain crop due to these rains has been reported. The above-normal rainfall extended up into Parana, maintaining good soil moisture for soybean planting, which should begin shortly. In Argentina, above-normal rains in the marginal agricultural area of southwestern Buenos Aires Province maintained good growing conditions for winter grains, as did lighter totals in the rich agriculture regions near Rosario.

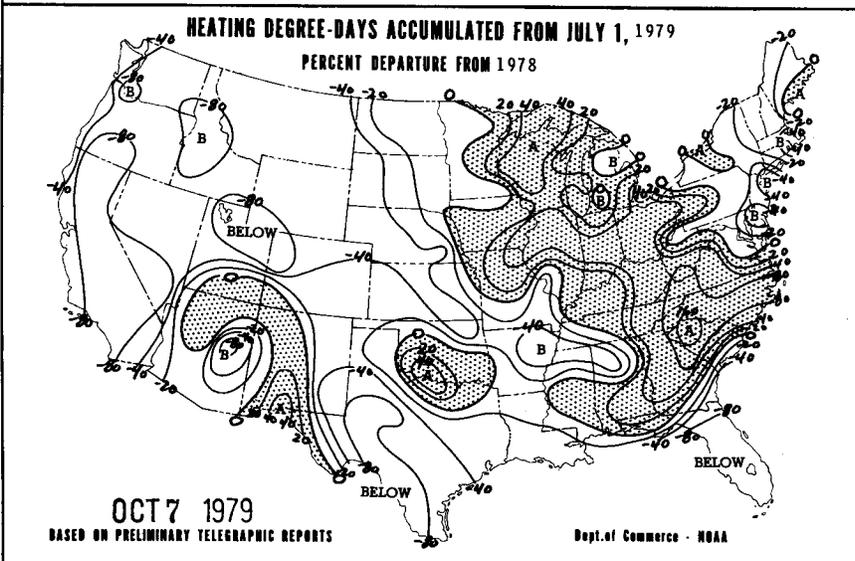
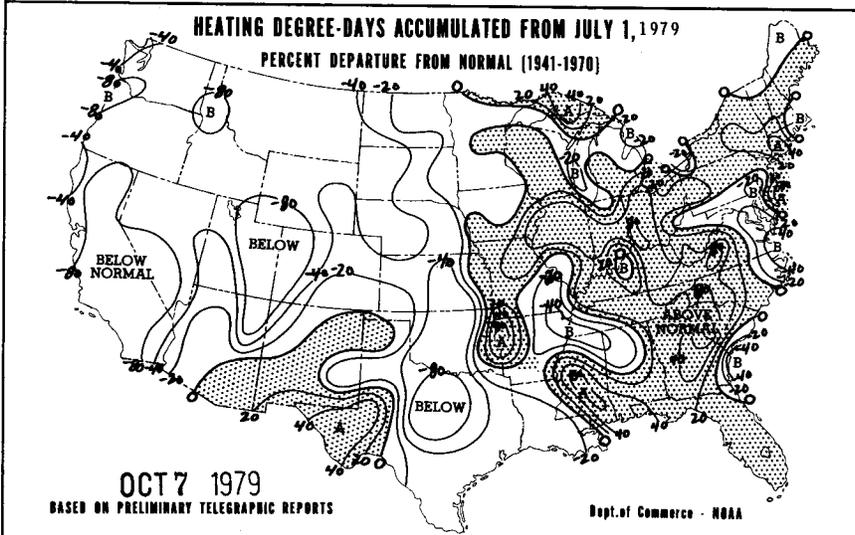
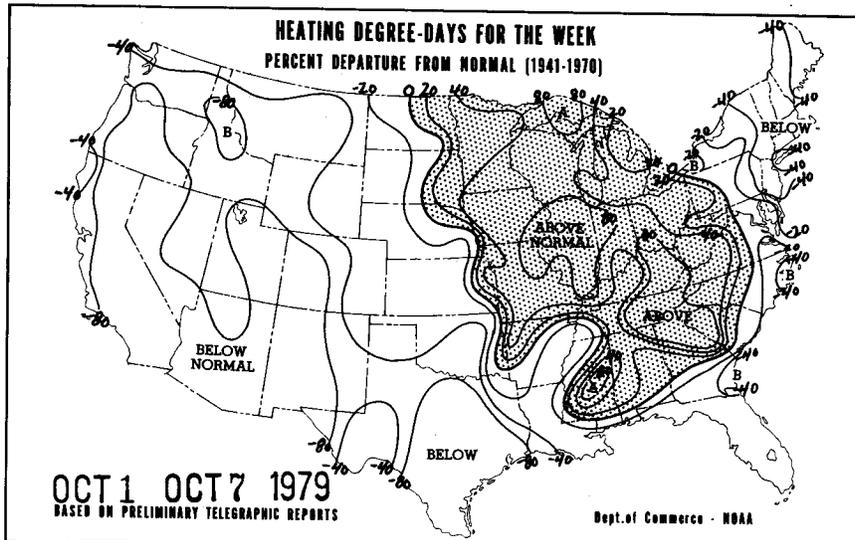
AUSTRALIA. Rainfall from two weather systems fell on major agricultural areas from South Australia to southern Queensland. Rainfall reports from Australia were not available due to transmission difficulties, but analysis of weather patterns indicate moderate rain fell on the dry southern Queensland region for most of Thursday.



MEXICO. Typically sunny and dry fall weather prevailed over the major agricultural areas. This favored development of winter vegetables, disease and insect control, cotton and other harvesting, but decreased soil moisture in nonirrigated districts. Some dryland citrus around Montemorelos may be under stress with hot daytime temperatures. Culiacan's temperature maxima averaged 34°C with a relative humidity of 55 percent, while overnight minima were 25°C with a relative humidity of 95 percent. The only significant rains fell between Veracruz and Merida and along the east coast of the Yucatan Peninsula.

CANADA. A second consecutive week of favorable harvest weather in the Prairie Provinces allowed the wrap-up of harvesting in nearly all areas. Only a few scattered fields remain in Manitoba. Routine publication of crop and weather conditions in the Prairie Provinces will cease with this issue but will resume next spring.

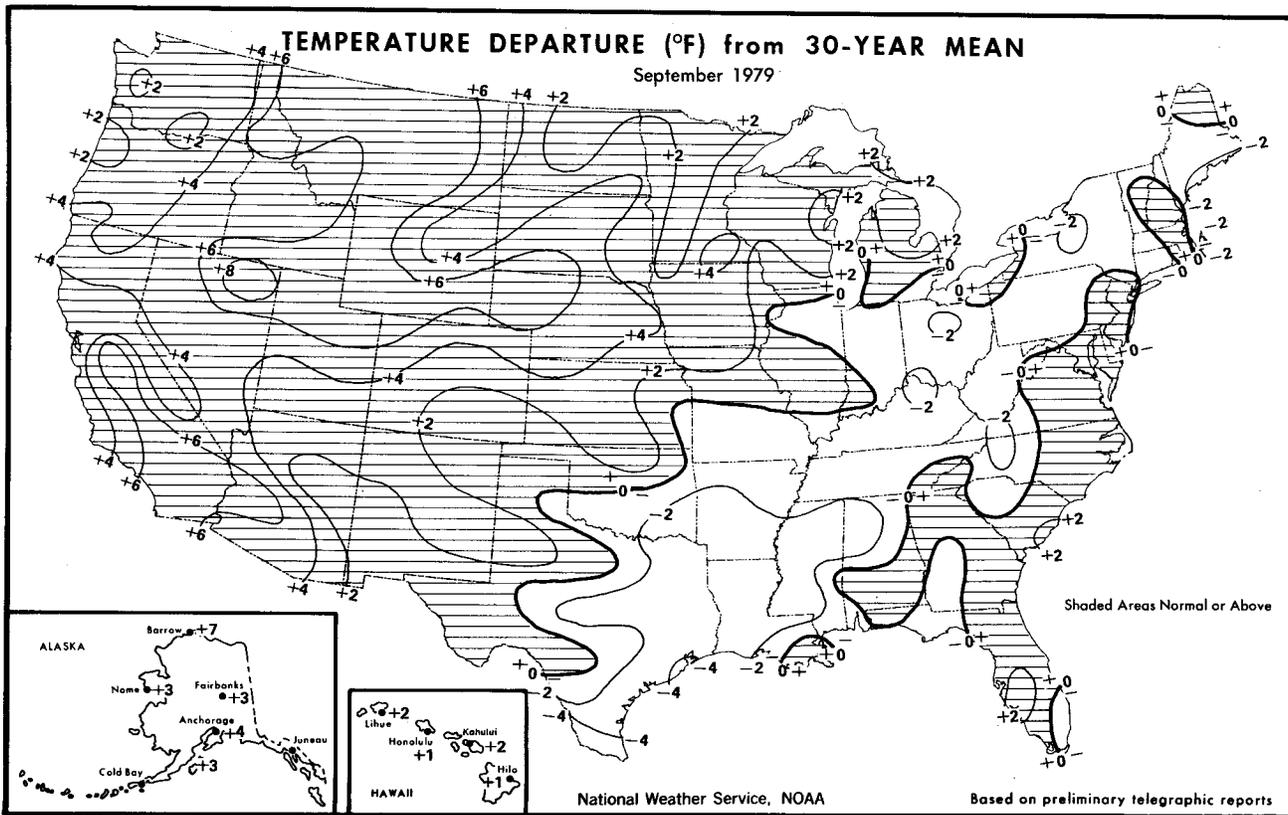




HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 7, 1979.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79		TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79		TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79
ALA. BIRMINGHAM...	1	0	15	15	0	15	MAINE. CARIBOU...	7	4	55	148	148	YOUNGSTOWN...	7	14	288	79	92	92	
MOBILE...	0	0	0	0	0	0	PORTLAND...	5	4	55	148	148	OKLA. OKLAHOMA CITY...	0	0	0	0	0	0	
MONTGOMERY...	0	0	0	0	0	0	BALTIMORE...	2	4	55	148	148	TULSA...	0	0	0	0	0	0	
ARIZ. FLAGSTAFF...	5	45	49	49	1	50	MASS. BOSTON...	2	2	123	111	111	OREG. ASTORIA...	2	2	191	191	191		
PHOENIX...	0	0	0	0	0	0	MICH. ALPENA...	1	1	10	10	10	BURNS...	2	2	191	191	191		
TUCSON...	0	0	0	0	0	0	DETROIT...	1	1	10	10	10	MEDFORD...	2	2	191	191	191		
WINSTON...	0	0	0	0	0	0	GRAND RAPIDS...	1	1	10	10	10	PORTLAND...	2	2	191	191	191		
YUMA...	0	0	0	0	0	0	HOUGHTON LARE...	1	1	10	10	10	SALEN...	2	2	191	191	191		
ARK. FORT SMITH...	1	2	1	1	1	1	LANSING...	1	1	10	10	10	PA. ALLENTOWN...	2	2	191	191	191		
LITTLE ROCK...	0	0	0	0	0	0	MARQUETTE...	1	1	10	10	10	ERIE...	2	2	191	191	191		
CALIF. BAKERSFIELD...	4	51	32	29	4	33	MUSKEGON...	1	1	10	10	10	HARRISBURG...	2	2	191	191	191		
EUREKA...	0	0	0	0	0	0	S. STE. MARIE...	1	1	10	10	10	MILWAUKEE...	2	2	191	191	191		
FRESNO...	0	0	0	0	0	0	MINN. DULUTH...	1	1	10	10	10	PHILADELPHIA...	2	2	191	191	191		
LOS ANGELES...	0	0	0	0	0	0	INTERNATL FALLS...	1	1	10	10	10	PITTSBURGH...	2	2	191	191	191		
RED BLUFF...	0	0	0	0	0	0	MINNEAPOLIS...	1	1	10	10	10	SCRANTON...	2	2	191	191	191		
SAN DIEGO...	0	0	0	0	0	0	ROCHESTER...	1	1	10	10	10	R. I. PROVIDENCE...	2	2	191	191	191		
SAN FRANCISCO...	1	13	10	10	1	11	ST. CLOUD...	1	1	10	10	10	S. C. CHARLESTON...	2	2	191	191	191		
STOCKTON...	0	0	0	0	0	0	MISS. JACKSON...	1	1	10	10	10	COLUMBIA...	2	2	191	191	191		
COLO. DENVER...	3	11	7	7	4	11	MD. BALTIMORE...	1	1	10	10	10	GREENVILLE...	2	2	191	191	191		
GRAND JUNCTION...	0	0	0	0	0	0	MD. COLUMBIA...	1	1	10	10	10	S. DAK. ABERDEEN...	2	2	191	191	191		
PUEBLO...	0	0	0	0	0	0	KANSAS CITY...	1	1	10	10	10	HURON...	2	2	191	191	191		
CONN. BRIDGEPORT...	1	1	1	1	1	1	ST. LOUIS...	1	1	10	10	10	RAPID CITY...	2	2	191	191	191		
HARTFORD...	0	0	0	0	0	0	SPRINGFIELD...	1	1	10	10	10	STOUR FALLS...	2	2	191	191	191		
DEL. WILMINGTON...	1	4	15	15	6	21	MONT. BILLINGS...	1	1	10	10	10	TENN. CHATTANOOGA...	2	2	191	191	191		
D.C. WASHINGTON...	1	1	1	1	1	1	GLASGOW...	1	1	10	10	10	KNOXVILLE...	2	2	191	191	191		
FLA. APALACHICOLA...	1	2	13	13	1	14	GREAT FALLS...	1	1	10	10	10	MEMPHIS...	2	2	191	191	191		
DAYTONA BEACH...	0	0	0	0	0	0	HAVRE...	1	1	10	10	10	NASHVILLE...	2	2	191	191	191		
FORT MYERS...	0	0	0	0	0	0	HELENA...	1	1	10	10	10	TEXAS. ARILENE...	2	2	191	191	191		
JACKSONVILLE...	0	0	0	0	0	0	KALISPELL...	1	1	10	10	10	AMARILLO...	2	2	191	191	191		
KEY WEST...	0	0	0	0	0	0	MILLSBORO...	1	1	10	10	10	BRISBANE...	2	2	191	191	191		
LAKELAND...	0	0	0	0	0	0	MISSOULA...	1	1	10	10	10	BROWNSVILLE...	2	2	191	191	191		
MIAMI...	0	0	0	0	0	0	NEBR. GRAND ISLAND...	1	1	10	10	10	CORPUS CHRISTI...	2	2	191	191	191		
ORLANDO...	0	0	0	0	0	0	LINCOLN...	1	1	10	10	10	DEL RIO...	2	2	191	191	191		
TALLAHASSEE...	0	0	0	0	0	0	NORFOLK...	1	1	10	10	10	EL PASO...	2	2	191	191	191		
TOMPA...	0	0	0	0	0	0	NORTH PLATTE...	1	1	10	10	10	FORT WORTH...	2	2	191	191	191		
WEST PALM BEACH...	0	0	0	0	0	0	OMAHA...	1	1	10	10	10	GALVESTON...	2	2	191	191	191		
GA. ATLANTA...	1	1	1	1	1	1	VALENTINE...	1	1	10	10	10	LUBBOCK...	2	2	191	191	191		
AUGUSTA...	0	0	0	0	0	0	NEV. ELY...	1	1	10	10	10	HIGHLAND...	2	2	191	191	191		
Macon...	0	0	0	0	0	0	LAS VEGAS...	1	1	10	10	10	SAN ANGELO...	2	2	191	191	191		
SAVANNAH...	0	0	0	0	0	0	RENO...	1	1	10	10	10	SAN ANTONIO...	2	2	191	191	191		
IDAHO. BOISE...	1	1	1	1	1	1	WINNEBEOCA...	1	1	10	10	10	VICTORIA...	2	2	191	191	191		
LEWISTON...	0	0	0	0	0	0	N. H. CONCORD...	1	1	10	10	10	WACO...	2	2	191	191	191		
POCAHELLO...	0	0	0	0	0	0	N. J. ATLANTIC CITY...	1	1	10	10	10	NICHITA FALLS...	2	2	191	191	191		
ILL. CHICAGO...	1	1	1	1	1	1	TRENTON...	1	1	10	10	10	UTAH. SALT LAKE CITY...	2	2	191	191	191		
MOLINE...	0	0	0	0	0	0	N. MEX. ALBUQUERQUE...	1	1	10	10	10	VT. BURLINGTON...	2	2	191	191	191		
PERU...	0	0	0	0	0	0	ROSWELL...	1	1	10	10	10	VA. LYNCHBURG...	2	2	191	191	191		
SPRINGFIELD...	0	0	0	0	0	0	N. Y. ALBANY...	1	1	10	10	10	NORFOLK...	2	2	191	191	191		
IND. EVANSVILLE...	4	7	15	15	1	16	BINGHAMTON...	1	1	10	10	10	ROANOKE...	2	2	191	191	191		
FORT WAYNE...	0	0	0	0	0	0	BUFFALO...	1	1	10	10	10	WASH. GUILLAVUTE...	2	2	191	191	191		
INDIANAPOLIS...	0	0	0	0	0	0	NEW YORK...	1	1	10	10	10	SEATTLE-TACOMA...	2	2	191	191	191		
SOUTH BEND...	0	0	0	0	0	0	ROCHESTER...	1	1	10	10	10	SPokane...	2	2	191	191	191		
IOWA. BURLINGTON...	0	0	0	0	0	0	SYRACUSE...	1	1	10	10	10	HALLA HALLA...	2	2	191	191	191		
DES MOINES...	0	0	0	0	0	0	N. C. ASHEVILLE...	1	1	10	10	10	VARIHA...	2	2	191	191	191		
DUBUQUE...	0	0	0	0	0	0	CHARLOTTE...	1	1	10	10	10	W. VA. BECKLEY...	2	2	191	191	191		
STOUR CITY...	0	0	0	0	0	0	GREENSBORO...	1	1	10	10	10	CHARLESTON...	2	2	191	191	191		
KANS. CONCORDIA...	2	10	45	45	3	48	HATTERAS...	1	1	10	10	10	HUNTINGTON...	2	2	191	191	191		
DODGE CITY...	0	0	0	0	0	0	RALEIGH...	1	1	10	10	10	PARKERSBURG...	2	2	191	191	191		
GODDARD...	0	0	0	0	0	0	WILMINGTON...	1	1	10	10	10	WIS. GREEN BAY...	2	2	191	191	191		
TOPEKA...	0	0	0	0	0	0	N. DAK. BISHARCK...	1	1	10	10	10	LACROSSE...	2	2	191	191	191		
NICHITA...	0	0	0	0	0	0	FARGO...	1	1	10	10	10	MADISON...	2	2	191	191	191		
KY. LEXINGTON...	0	0	0	0	0	0	HILLSTON...	1	1	10	10	10	MILWAUKEE...	2	2	191	191	191		
LOUISVILLE...	0	0	0	0	0	0	OHIO. AKRON-CANTON...	1	1	10	10	10	WYO. CASPER...	2	2	191	191	191		
LA. BATON ROUGE...	0	0	0	0	0	0	CINCINNATI...	1	1	10	10	10	CHEYENNE...	2	2	191	191	191		
LAKE CHARLES...	0	0	0	0	0	0	CLEVELAND...	1	1	10	10	10	LANDER...	2	2	191	191	191		
NEW ORLEANS...	0	0	0	0	0	0	COLUMBUS...	1	1	10	10	10	SHERIDAN...	2	2	191	191	191		
SHREVEPORT...	0	0	0	0	0	0	DAYTON...	1	1	10	10	10								

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.



September Weather Summary

HIGHLIGHTS: Wet, cloudy, and humid weather prevailed over the South and East, as two hurricanes and other storm systems moved across those regions during September. Rainfall totaled more than 12 inches along most of the Gulf Coast, Florida, and the southeastern Coastal Plain. Over 23 inches drenched Freeport, Texas, just southwest of Galveston. Record dryness occurred from Michigan to central Texas and over parts of the West. It was also unseasonably warm in the West, and a prolonged heat wave baked California during the first three weeks. Pleasant, sunny weather was the rule in the Rockies.

Hurricane David, after killing more than 1,000 people in the Dominican Republic on August 31 reached South Florida three days later. It marched northward and triggered heavy rains, gusty winds, flash floods, and a few tornadoes from Florida to Connecticut. More than 10 inches of rain soaked the eastern Carolinas on the 5th.

Meanwhile, dry weather developed from Michigan to central Texas and over most of the West. Unseasonable warmth settled over the West, with several stations measuring 8 to 10 degrees above normal.

Hurricane Frederic slammed into the central Gulf Coast near Mobile, Alabama, on the 13th. It brought heavy rains--up to 9 inches along the coast and 4 to 6 inches across its track through Tennessee into western New York.

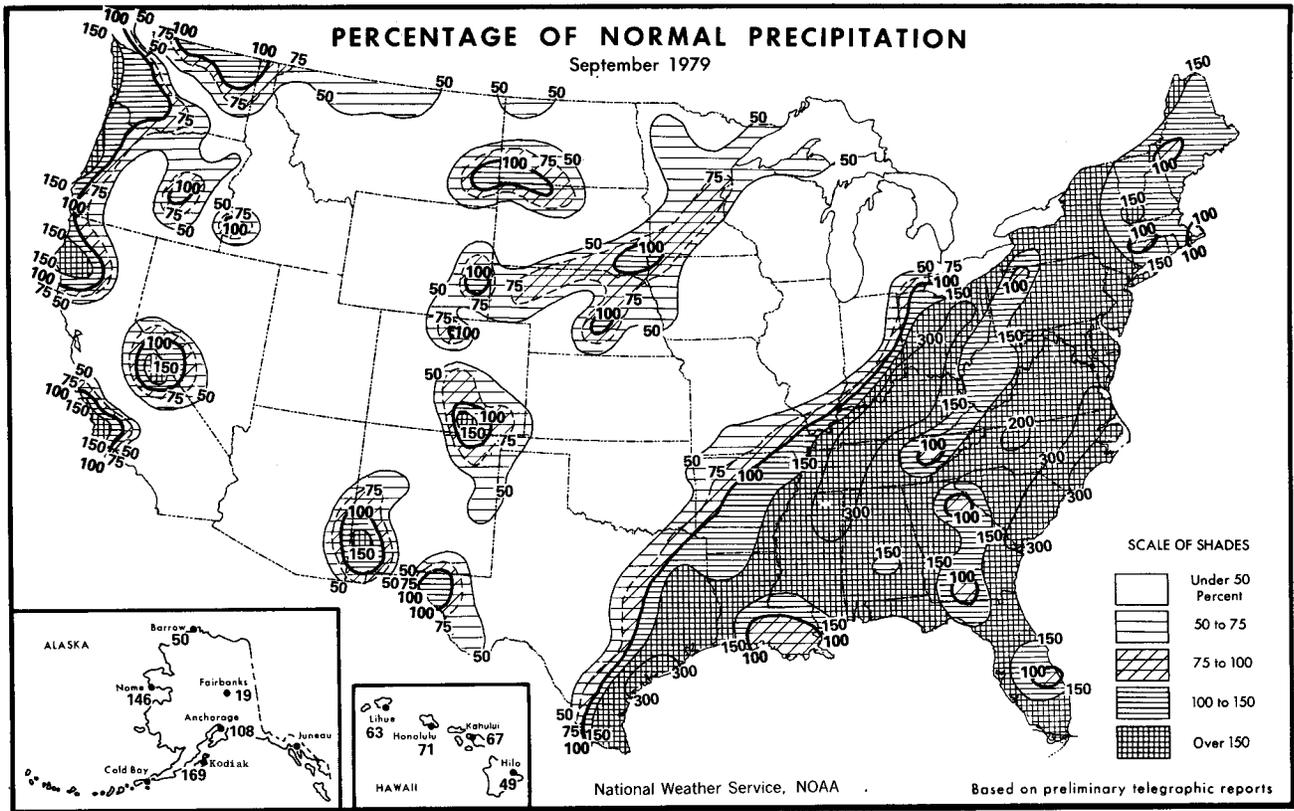
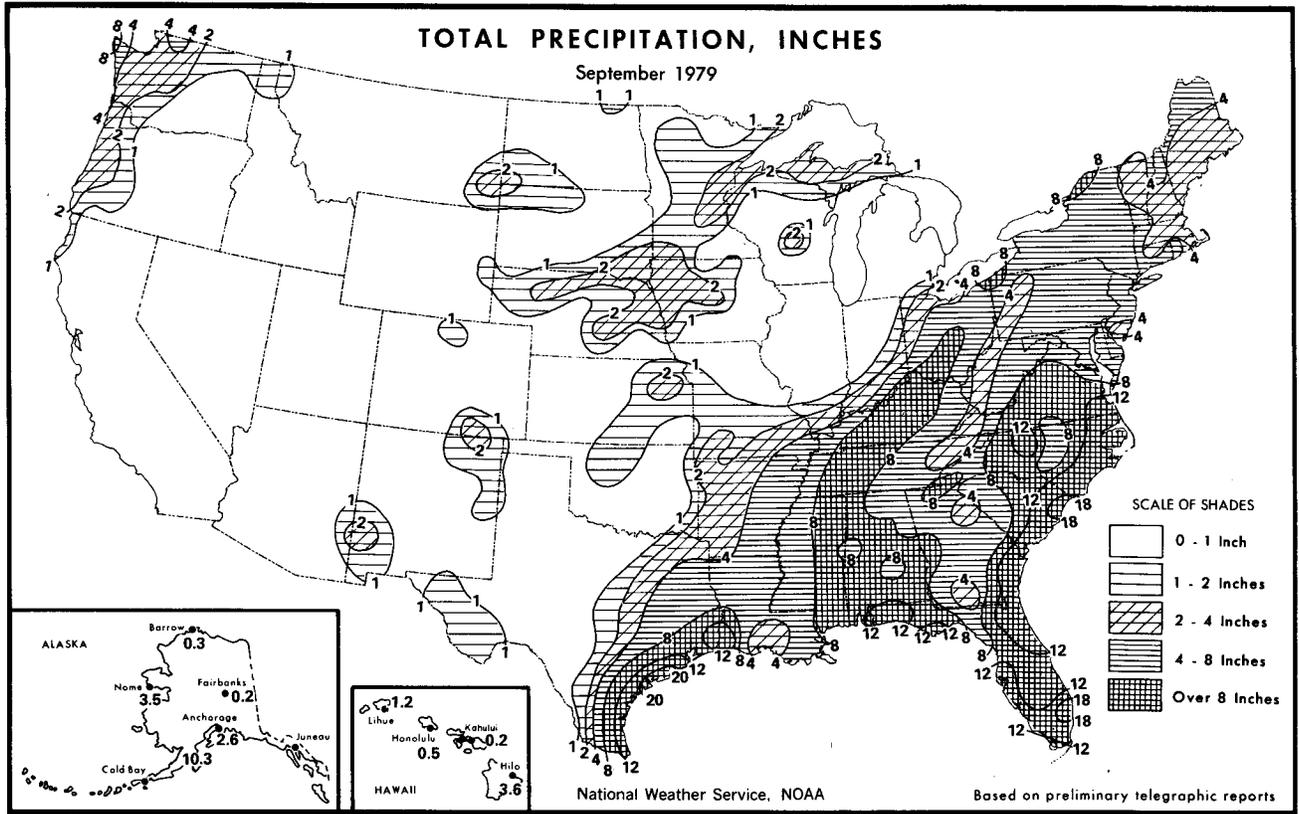
Dry weather continued from Michigan to central Texas and in the Far West during the week of 10-16th.

A heat wave became concentrated over California, with temperatures averaging 9 to 11 degrees above normal during the second week.

A low pressure storm system developed along the Texas coast on the 18th and triggered heavy rains over the southeastern third of the Nation. Torrential amounts fell along most of the Texas and Louisiana coasts. Freeport, Texas, just southwest of Galveston, received more than 20 inches. Elsewhere, dry weather was the general rule.

The California heat wave abated during the third week, but it was still unseasonably warm over the West.

Heavy rains fell over the Southeast in association with a stationary front during the last week of September. Three to 6 inches soaked some sections from Florida into Tennessee and Virginia. Light showers heralded the beginning of the fall rain season over parts of the West.



Temperature and Precipitation Data for September 1979

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	72	- 2	10.4	+ 6.8	LA. Baton Rouge . . .	76	- 2	3.6	- .2	Youngstown . . .	62	- 1	5.1	+ 2.5
Mobile . . .	77	- 1	11.7	+ 5.1	Lake Charles . . .	76	- 2	14.1	+10.1	OKLA. Okla. City . . .	73	0	.7	- 2.9
Montgomery . . .	76	0	5.3	+ .9	New Orleans . . .	79	+ 1	4.6	- 1.0	Tulsa . . .	75	+ 2	.3	- 3.8
ALASKA Anchorage . . .	52	+ 4	2.6	+ .2	Shreveport . . .	74	- 3	4.3	+ 1.2	OREG. Astoria . . .	61	+ 3	4.4	+ 1.6
Barrow . . .	37	+ 7	.3	- .3	MAINE. Caribou . . .	54	0	4.7	+ .3	Burns . . .	62	+ 4	.6	+ .1
Fairbanks . . .	47	+ 3	.2	- .9	Portland . . .	57	- 2	3.5	+ .4	Medford . . .	68	+ 4	.3	- 1.3
Juneau . . .	--	--	--	--	MD. Baltimore . . .	69	0	6.7	+ 3.6	Pendleton . . .	66	+ 2	.3	- .3
Kodiak . . .	53	+ 3	10.3	+ 4.2	MASS. Boston . . .	65	0	3.6	+ .4	Portland . . .	66	+ 4	1.8	+ .2
Nome . . .	45	+ 3	3.5	+ 1.1	Chatham . . .	62	- 2	2.2	- .8	Salem . . .	63	+ 1	2.2	+ .7
ARIZ. Flagstaff . . .	59	+ 1	1.1	- 1.6	MICH. Alpena . . .	59	+ 3	.3	- 3.0	PA. Allentown . . .	65	0	7.2	+ 3.6
Phoenix . . .	90	+ 6	.1	- .6	Detroit . . .	63	- 1	.9	- 1.3	Erie . . .	64	+ 3	8.4	+ 4.8
Tucson . . .	84	+ 4	T	- 1.4	Flint . . .	63	+ 2	.3	- 2.2	Harrisburg . . .	66	- 1	6.6	+ 3.9
Winslow . . .	71	+ 1	.1	- .8	Grand Rapids . . .	63	+ 1	T	- 3.2	Philadelphia . . .	69	+ 1	4.8	+ 1.8
Yuma . . .	92	+ 5	0	- 2.5	Houghton Lake . . .	59	+ 2	T	- 3.2	Pittsburgh . . .	63	- 1	3.6	+ 1.1
ARK. Fort Smith . . .	72	- 2	.8	- 2.2	Lansing . . .	63	+ 1	T	- 2.6	Scranton . . .	63	0	5.8	+ 2.9
Little Rock . . .	71	- 2	4.0	+ .5	Marquette . . .	56	+ 2	2.1	- 1.9	R.I. Providence . . .	64	+ 1	4.1	+ .8
CALIF. Bakersfield . . .	82	+ 5	.3	+ .2	Muskegon . . .	61	- 1	.2	- 3.2	S.C. Charleston . . .	77	+ 2	15.4	+10.2
Eureka . . .	62	+ 5	1.2	+ .5	S. Ste. Marie . . .	55	0	1.6	- 2.3	Columbia . . .	74	- 1	7.9	+ 3.6
Fresno . . .	80	+ 6	T	- .1	MINN. Duluth . . .	57	+ 3	2.0	- 1.1	Greenville . . .	71	- 1	7.5	+ 3.7
Los Angeles . . .	74	+ 5	T	- .1	Internatl Falls . . .	53	0	.7	- 2.6	S.D. Aberdeen . . .	63	+ 4	.1	- 1.6
Red Bluff . . .	80	+ 5	.6	+ .3	Minneapolis . . .	63	+ 3	2.2	- .5	Huron . . .	64	+ 3	.2	- 1.6
San Diego . . .	76	+ 6	0	- .1	Rochester . . .	63	+ 4	.6	- 2.5	Rapid City . . .	66	+ 5	.1	- 1.1
San Francisco . . .	67	+ 3	T	- .2	St. Cloud . . .	59	+ 1	1.6	- 1.1	Sioux Falls . . .	64	+ 3	4.0	+ 1.1
Stockton . . .	78	+ 6	T	- .2	MISS. Jackson . . .	74	- 2	5.3	+ 2.3	TENN. Chattanooga . . .	72	0	7.8	+ 4.1
COLO. Denver . . .	66	+ 3	.4	- .7	Meridian . . .	75	0	8.2	+ 4.9	Knoxville . . .	72	0	2.6	- .2
Grand Junction . . .	72	+ 5	T	- .8	MO. Columbia . . .	68	0	.5	- 3.9	Memphis . . .	73	- 1	4.5	+ 1.5
Pueblo . . .	67	+ 1	.6	- .2	Kansas City . . .	69	+ 1	1.2	- 3.0	Nashville . . .	71	- 1	11.1	+ 8.0
CONN. Bridgeport . . .	65	- 2	4.5	+ 1.6	St. Louis . . .	71	+ 1	T	- 2.9	TEX. Abilene . . .	78	+ 2	T	- 2.3
Hartford . . .	62	- 1	3.0	- .6	Springfield . . .	69	0	2.1	- 2.0	Amarillo . . .	70	0	.5	- 1.4
D.C. Washington . . .	72	+ 1	6.6	+ 3.5	MONT. Billings . . .	66	+ 7	.2	- 1.2	Austin . . .	78	- 1	1.4	- 2.3
FLA. Apalachicola . . .	78	- 1	17.6	+ 8.6	Glasgow . . .	63	+ 6	.3	- .6	Beaumont . . .	77	- 2	9.5	+ 4.2
Daytona Beach . . .	80	0	15.2	+ 8.1	Great Falls . . .	63	+ 6	.3	- .9	Brownsville . . .	78	- 4	8.8	+ 3.6
Ft. Myers . . .	84	+ 2	13.6	+ 4.9	Havre . . .	63	+ 6	.7	- .4	Corpus Christi . . .	79	- 2	13.8	+ 8.9
Jacksonville . . .	79	+ 1	17.8	+10.0	Helena . . .	61	+ 5	.1	- .9	Del Rio . . .	81	+ 1	.7	- 2.4
Key West . . .	84	+ 1	2.8	+ 4.5	Kalispell . . .	59	+ 6	.4	- .7	El Paso . . .	74	0	.4	- .8
Lakeland . . .	81	- 1	13.4	+ 4.7	Miles City . . .	66	+ 6	T	- 1.2	Fort Worth . . .	77	- 1	1.0	- 2.2
Miami . . .	81	+ 1	9.2	+ 2.0	Missoula . . .	61	+ 6	.1	- 1.0	Galveston . . .	76	- 4	10.9	+ 5.3
Orlando . . .	77	- 1	10.2	+ 3.6	NEBR. Grand Island . . .	68	+ 4	2.5	0	Houston . . .	76	- 3	9.8	+ 5.1
Tallahassee . . .	82	+ 1	14.0	+ 7.6	Lincoln . . .	69	+ 3	.4	- 2.5	Lubbock . . .	73	+ 2	.2	- 2.0
Tampa . . .	87	+ 1	19.6	+ 9.7	Norfolk . . .	67	+ 4	1.8	- .6	Midland . . .	75	0	.1	- 1.4
W. Palm Beach . . .	81	- 1	6.1	+ 2.9	N. Platte . . .	67	+ 5	.5	- 1.5	San Angelo . . .	75	- 2	.1	- 2.6
GA. Atlanta . . .	73	+ 1	6.1	+ 2.9	Omaha . . .	68	+ 4	2.3	- .9	San Antonio . . .	79	- 0	.9	- 2.8
Augusta . . .	74	0	4.8	+ 1.5	Valentine . . .	67	+ 6	1.4	- .1	Victoria . . .	77	- 3	10.5	+ 5.9
Macon . . .	75	- 1	6.1	+ 3.0	NEV. Ely . . .	61	+ 4	.1	- .5	Waco . . .	76	- 3	2.5	- .7
Savannah . . .	77	+ 1	12.2	+ 6.6	Las Vegas . . .	85	+ 5	T	- .3	Wichita Falls . . .	76	- 1	.1	- 2.9
HAWAII. Hilo . . .	77	+ 1	3.6	- 3.8	Reno . . .	64	+ 4	T	- .2	UTAH. Blanding . . .	66	+ 3	.1	- .9
Honolulu . . .	81	+ 1	.5	- .2	Winnemucca . . .	63	+ 4	T	- .3	Salt Lake City . . .	71	+ 6	.1	- .6
Kahului . . .	80	+ 2	.2	- .1	N.H. Concord . . .	60	0	3.2	+ .1	VT. Burlington . . .	59	0	3.8	+ .7
Lihue . . .	81	+ 2	1.2	- .7	N.J. Atlantic City . . .	66	- 1	3.3	+ .3	VA. Lynchburg . . .	68	0	9.2	+ 5.9
IDAHO. Boise . . .	67	+ 4	T	- .4	Trenton . . .	67	0	5.4	+ 2.2	Norfolk . . .	73	+ 1	13.8	+ 9.6
Lewiston . . .	69	+ 6	.2	- .7	N.MEX. Albuquerque . . .	72	+ 2	.4	- .4	Richmond . . .	71	+ 1	9.8	+ 6.2
Pocatello . . .	65	+ 6	.2	- .4	Roswell . . .	73	+ 3	.2	- 1.3	Roanoke . . .	66	- 2	9.2	+ 5.8
ILL. Cairo . . .	71	0	2.9	- .6	N.Y. Albany . . .	61	- 1	4.1	+ 1.0	WASH. Colville . . .	61	+ 2	1.0	+ .2
Chicago . . .	65	- 1	T	- 3.0	Binghamton . . .	59	- 1	5.7	+ 2.7	Omak . . .	--	--	--	--
Moline . . .	64	- 1	T	- 3.8	Buffalo . . .	62	0	5.6	+ 2.3	Quillayute . . .	60	+ 3	8.6	+ 3.4
Peoria . . .	66	0	T	- 3.6	New York . . .	68	0	4.1	+ .9	Seattle-Tacoma . . .	63	+ 3	2.1	+ .1
Rockford . . .	63	0	- 1	- 3.9	Rochester . . .	61	- 1	5.3	+ 2.9	Spokane . . .	63	+ 3	.8	0
Springfield . . .	68	+ 1	T	- 3.3	Syracuse . . .	61	- 2	5.3	+ 2.6	Walla Walla . . .	69	+ 3	.3	- .6
IND. Evansville . . .	68	- 1	2.8	0	N.C. Asheville . . .	67	0	5.6	+ 2.0	Yakima . . .	64	+ 3	.4	+ .1
Ft. Wayne . . .	64	- 1	.3	- 2.3	Charlotte . . .	70	- 2	9.7	+ 6.2	W.VA. Beckley . . .	62	- 1	4.6	+ 1.2
Indianapolis . . .	65	- 1	T	- 2.5	Greensboro . . .	69	- 1	13.1	+ 9.5	Charleston . . .	67	- 1	4.0	+ 1.1
South Bend . . .	65	+ 1	4	- 3.1	Hatteras . . .	75	+ 1	12.8	+ 7.0	Huntington . . .	67	- 1	5.3	+ 2.4
IOWA. Burlington . . .	67	+ 2	T	- 3.7	Haleigh . . .	71	0	6.8	+ 3.0	Parkersburg . . .	66	- 1	4.0	+ 1.2
Des Moines . . .	67	+ 3	1.0	- 2.1	Wilmington . . .	75	0	15.2	+ 9.6	WISC. Green Bay . . .	60	+ 1	.8	- 2.4
Dubuque . . .	63	+ 1	.1	- 4.5	N.DAK. Bismarck . . .	59	+ 1	.8	- .5	La Crosse . . .	63	+ 1	.4	- 3.0
Sioux City . . .	65	+ 2	2.0	- .8	Fargo . . .	62	+ 4	.3	- 1.5	Madison . . .	61	+ 1	.1	- 3.3
KANS. Concordia . . .	71	+ 3	.8	- 2.3	Williston . . .	61	+ 4	.4	- .6	Milwaukee . . .	65	+ 4	T	- 3.0
Dodge City . . .	71	+ 2	.1	- 1.6	OHIO. Akron-Canton . . .	63	- 1	7.9	+ 5.3	WYO. Casper . . .	62	+ 3	.2	- .7
Goodland . . .	68	+ 4	.2	- 1.2	Cincinnati . . .	66	- 2	8.6	+ 6.0	Cheyenne . . .	63	+ 5	.3	- .7
Topeka . . .	68	0	2.2	- 1.1	Cleveland . . .	65	+ 1	3.7	+ .9	Lander . . .	64	+ 6	T	- 1.1
Wichita . . .	73	+ 2	1.5	- 2.2	Columbus . . .	65	0	6.8	+ 4.4	Sheridan . . .	62	+ 4	.4	- .9
KY. Lexington . . .	67	- 2	9.6	+ 7.0	Dayton . . .	65	- 1	3.5	+ 1.2	P.R. San Juan . . .	82	+ 1	10.1	+ 4.0
Louisville . . .	69	0	10.5	+ 7.6	Toledo . . .	63	- 1	2.9	+ .5					

Based on 1941-70 normals

Heating Degree Days (Base 65° F.)

September 1979

ALA. Birmingham	0	MAINE, Caribou	327	OKLA. Okla. City	2
Mobile	0	Portland	240	Tulsa	0
Montgomery	0	MD. Baltimore	22	OREG. Astoria	111
ALASKA, Anchorage	384	MASS. Boston	80	Burns U.	102
Barrow	851	Chatham	114	Medford	5
Fairbanks	--	MICH. Alpena	213	Pendleton	43
Juneau	--	Detroit	126	Portland	19
Nome	606	Flint	120	Salem	76
ARIZ. Flagstaff	183	Grand Rapids	109	PA. Allentown	76
Phoenix	0	Houghton Lake	196	Erie	84
Tucson	0	Lansing	118	Harrisburg	71
Winslow	6	Marquette U	295	Philadelphia	28
Yuma	0	S. Ste. Marie	305	Pittsburgh	111
ARK. Fort Smith	8	MINN. Duluth	252	Scranton	120
Little Rock	5	Internatl Falls	364	R. I. Providence	94
CALIF. Bakersfield	0	Minneapolis	105	S. C. Charleston	0
Eureka U.	92	Rochester	123	Columbia	6
Fresno	0	St. Cloud	220	Greenville	9
Los Angeles U	0	MISS. Jackson	0	S. DAK. Aberdeen	124
Red Bluff	0	Meridian	0	Huron	122
Stockton	0	Vicksburg U	--	Rapid City	64
San Diego	0	MO. Columbia	34	Sioux Falls	103
San Francisco	13	Kansas City	35	TENN. Chattanooga	0
COLO. Denver	58	St. Louis	16	Knoxville	0
Grand Junction	0	Springfield	31	Memphis	0
Pueblo	45	MONT. Billings	44	Nashville	5
CONN. Bridgeport	84	Glasgow	114	TEX. Abilene	0
Hartford	152	Great Falls	106	Amarillo	28
D. C. Washington	5	Havre	110	Austin	0
FLA. Apalachicola	0	Helena	127	Beaumont	0
Ft. Myers	0	Kalispell	191	Brownsville	0
Jacksonville	0	Miles City	63	Corpus Christi	0
Key West	0	Missoula	121	Dallas	--
Daytona Beach	0	NEBR. Grand Island	49	Del Rio	0
Miami	0	Lincoln	42	El Paso	24
Orlando	0	Norfolk	56	Fort Worth	0
W. Palm Beach	0	North Platte	52	Galveston U.	0
Tallahassee	0	Omaha	48	Houston	0
Tampa	0	Valentine	77	Lubbock	9
GA. Atlanta	5	NEV. Ely	125	Midland	3
Augusta	4	Las Vegas	0	San Angelo	0
Macon	3	Reno	56	San Antonio	0
Savannah	0	Winnemucca	75	Victoria	0
IDAHO, Boise	26	N. H. Concord	199	Waco	0
Lewiston	14	N. J. Atlantic City	74	Wichita Falls	0
Pocatello	66	Trenton U	41	UTAH, Milford	28
ILL. Cairo U.	4	N. MEX. Albuquerque	23	Salt Lake City	7
Chicago	61	Roswell	27	VT. Burlington	213
Moline	95	N. Y. Albany	163	VA. Lynchburg	27
Peoria	70	Binghamton	204	Norfolk	0
Rockford	120	Buffalo	134	Richmond	8
Springfield	50	New York	32	Roanoke	49
IND. Evansville	28	Rochester	155	WASH. Colville	121
Fort Wayne	94	Syracuse	146	Omak	--
Indianapolis	87	N. C. Asheville	44	Quillayute	147
South Bend	73	Charlotte	14	Seattle-Tacoma	86
IOWA, Burlington	46	Greensboro	25	Spokane	91
Des Moines	56	Hatteras R.	0	Walla Walla U.	9
Dubuque	110	Raleigh	13	Yakima	58
Sioux City	81	Wilmington	0	W. VA. Beckley	116
KANS. Concordia	22	N. DAK. Bismarck	191	Charleston	39
Dodge City	27	Fargo	139	Huntington	36
Goodland	49	Williston U	145	Parkersburg U.	54
Topeka	45	OHIO. Akron-Canton	118	WIS. Green Bay	166
Wichita	10	Cincinnati U.	60	Madison	144
KY. Lexington	40	Cleveland	87	Milwaukee	70
Louisville	19	Columbus	83	WYO. Casper	118
LA. Baton Rouge	0	Dayton	91	Cheyenne	105
Lake Charles	0	Toledo	121	Lander	84
New Orleans	0	Youngstown	62	Sheridan	120
Shreveport	0				

Preliminary reports from airport locations, except those marked U for urban and R for rural.
*Estimated.

**CROP DEVELOPMENT
FOR WEEK ENDING OCT 7**

	CORN MATURE		
	1979	1978	AVG.
COLO	NA	NA	NA
GA	NA	NA	NA
ILL	NA	NA	NA
IND	90	90	85
IOWA	98	100	100
KANS	90	95	90
KY	NA	NA	NA
MICH	56	75	67
MINN	85	97	93
MO	87	75	86
NEBR	85	95	95
NC	NA	NA	NA
OHIO	95	90	95
PA	NA	NA	NA
S DAK	NA	NA	NA
VA	NA	NA	NA
WISC	NA	NA	NA

	SOYBEANS MATURE		
	1979	1978	AVG.
ALA	33	54	46
ARK	30	NA	NA
GA	NA	NA	NA
ILL	NA	NA	NA
IND	80	75	80
IOWA	93	97	99
KANS	NA	NA	NA
KY	NA	NA	NA
LA	NA	NA	NA
MICH	44	57	52
MINN	84	97	97
MISS	30	44	41
MO	66	40	60
NEBR	NA	NA	NA
NC	NA	NA	NA
OHIO	NA	NA	NA
SC	4	8	9
TENN	11	29	30

	COTTON OPEN BOLLS		
	1979	1978	AVG.
ALA	51	79	53
ARIZ	NA	NA	NA
ARK	51	85	74
CALIF	NA	NA	NA
GA	NA	NA	NA
LA	52	85	79
MISS	92	97	84
MO	91	100	60
N MEX	40	40	NA
NC	66	NA	NA
OKLA	60	70	45
SC	91	96	87
TENN	49	85	64
TEX	48	NA	NA

	GRAIN SORGHUM MATURE		
	1979	1978	AVG.
COLO	NA	NA	NA
KANS	80	70	75
MO	86	78	80
NEBR	80	95	95
OKLA	85	75	80
SD	NA	NA	NA
TEX	81	NA	NA

1/ LESS THAN 5%

NA NOT AVAILABLE

**HARVESTING PROGRESS
FOR WEEK ENDING OCT 7, 1979**

	CORN			
	1979	1978	AVG.	
COLO	4	15	17	
GA	81	83	64	
ILL	10	22	17	
IND	10	15	10	
IOWA	10	21	18	
KANS	40	48	30	
KY	20	36	28	
MICH	4	6	7	
MINN	2	16	24	
MO	31	28	37	
NEBR	5	10	15	
N C	69	80	70	
OHIO	10	15	15	
PA	5	6	8	
S DAK	8	12	19	
VA	45	49	45	
WIS	2	6	7	
17 STATES	13	21	20	

THESE 17 STATES PRODUCED 93% OF THE 1978 CORN CROP.

	SOYBEANS			
	1979	1978	AVG.	
ALA	7	9	8	
ARK	2	6	7	
GA	3	9	4	
ILL	60	55	47	
IND	25	25	30	
IOWA	49	36	48	
KANS	25	20	10	
KY	10	23	16	
LA	17	20	25	
MICH	9	6	12	
MINN	35	47	56	
MISS	8	16	14	
MO	30	15	16	
NEBR	50	45	40	
N C	NA	NA	NA	
OHIO	15	30	30	
S C	0	2	NA	
TENN	1	6	4	
18 STATES	28	27	28	

THESE 18 STATES PRODUCED 95% OF THE 1978 SOYBEAN CROP.

	COTTON		
	1979	1978	AVG.
ALA	5	34	NA
ARIZ	12	13	9
ARK	5	22	15
CALIF	6	NA	NA
GA	16	25	17
LA	4	29	19
MISS	6	37	21
MO	23	31	13
N MEX	0	1	3
N C	12	9	7
OKLA	0	0	0
S C	13	35	18
TENN	2	37	20
TEX	15	22	22
14 STATES	11	23	19

THESE 14 STATES PRODUCED 99% OF THE 1978 COTTON CROP.

	RICE		
	1979	1978	AVG.
ARK	54	82	76
CALIF	22	NA	NA
LA	94	96	NA
MISS	63	82	66
TEX	100	100	100
5 STATES	63	NA	NA
EXCL CALIF	72	87	79

THESE 5 STATES PRODUCED 99% OF THE 1978 RICE CROP.

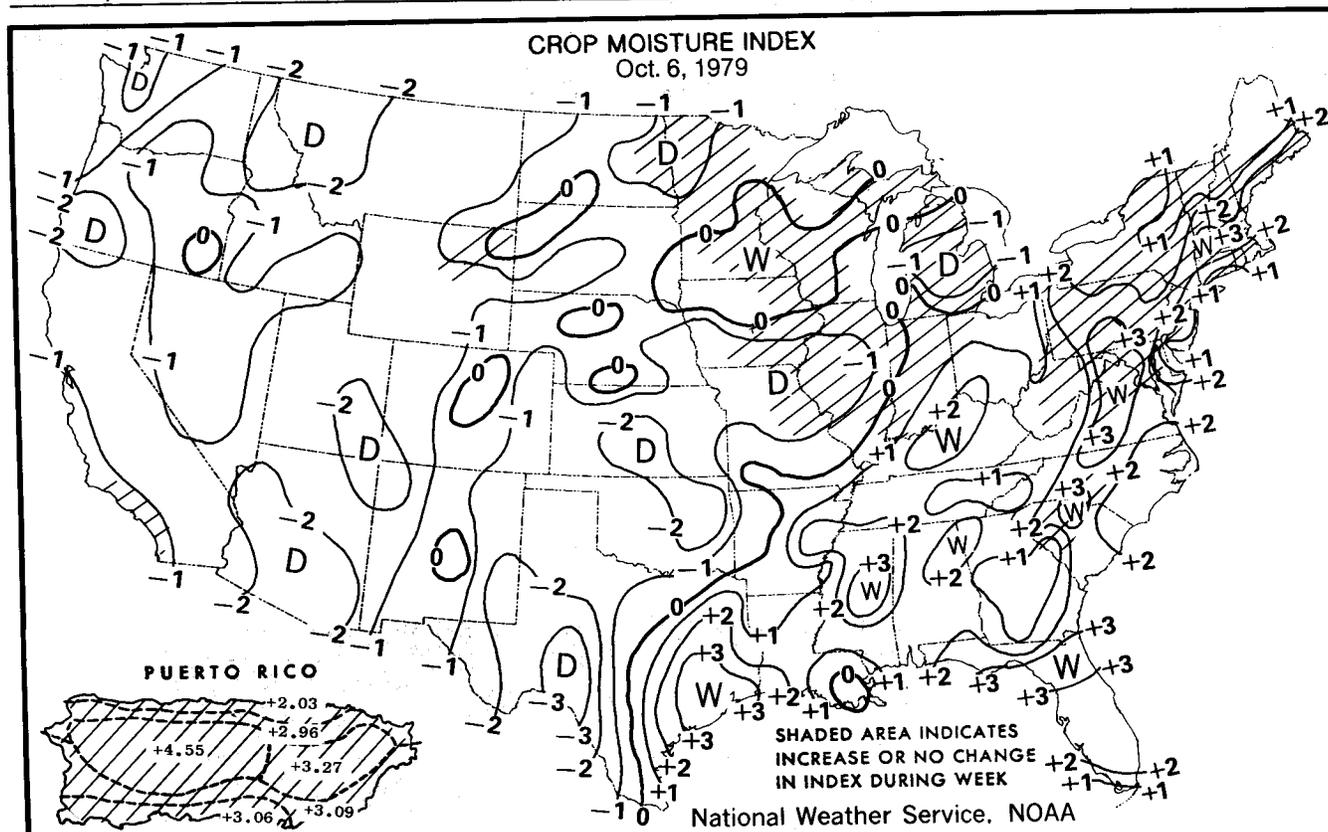
	GRAIN SORGHUM		
	1979	1978	AVG.
COLO	1/	6	7
KANS	25	20	25
MO	37	34	33
NEBR	15	30	30
OKLA	20	15	20
S DAK	13	13	31
TEX	71	73	70
7 STATES	40	41	42

THESE 7 STATES PRODUCED 92% OF THE 1978 GRAIN SORGHUM CROP.

**PLANTING PROGRESS
FOR WEEK ENDING OCT 7, 1979**

	WINTER WHEAT		
	1979	1978	AVG.
CALIF	0	0	NA
COLO	96	93	93
IDAHO	75	65	70
ILL	27	30	33
IND	30	35	35
KANS	65	75	70
MO	35	35	NA
MONT	80	80	90
NEBR	95	100	95
OHIO	35	50	45
OKLA	60	70	60
OREG	51	NA	NA
S DAK	100	99	99
TEX	58	55	62
WASH	60	68	NA
15 STATES	64	69	70

THESE 15 STATES PRODUCED 90% OF THE 1979 WINTER WHEAT CROP.



The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and

the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

UNSHADED AREAS:	INDEX DECREASED
ABOVE 3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0 to 3.0	MORE DRY WEATHER NEEDED, WORK DELAYED
1.0 to 2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 to 1.0	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 to -1.0	TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1.0 to -2.0	ABNORMALLY DRY, PROSPECTS DETERIORATING
-2.0 to -3.0	TOO DRY, YIELD PROSPECTS REDUCED
-3.0 to -4.0	POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4.0	EXTREMELY DRY, MOST CROPS RUINED

SHADED AREA:	INDEX INCREASED OR DID NOT CHANGE
ABOVE 3.0	EXCESSIVELY WET, SOME FIELDS FLOODED
2.0 to 3.0	TOO WET, SOME STANDING WATER
1.0 to 2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 to 1.0	MOISTURE ADEQUATE FOR PRESENT NEEDS
0 to -1.0	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1.0 to -2.0	SOME IMPROVEMENT BUT STILL TOO DRY
-2.0 to -3.0	DROUGHT EASED BUT STILL SERIOUS
-3.0 to -4.0	DROUGHT CONTINUED, RAIN URGENTLY NEEDED
BELOW -4.0	NOT ENOUGH RAIN, STILL EXTREMELY DRY

ADDITIONAL RAIN IN THE UPPER MISSISSIPPI VALLEY, THE CENTRAL CORNBELT, THE MID-ATLANTIC STATES, AND NEW ENGLAND HAS INCREASED CROP MOISTURE. EXCESSIVELY WET AREAS CONTINUED IN PARTS OF THE AREA FROM CENTRAL PENNSYLVANIA INTO SOUTH CAROLINA, AND IN MISSISSIPPI AND SOUTHEASTERN TEXAS. CROP MOISTURE IS SHORT FROM THE PLAINS WESTWARD. THE SHORTAGE IN THE CRITICAL WINTER WHEAT AREA IS DELAYING GERMINATION.

Agricultural Weather Facility
USDA South Bldg., Room 1248
Washington, D.C. 20250

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This NOAA composite satellite picture, taken on Saturday, Oct. 6, shows the clear skies that prevailed over India and China during the week.

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